Turbo Spectrum aka CoBra-2

Specification

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1 Introduction

Once upon a time, in the glorious eighties, in the medieval town of Brasov, Transylvania, a small group of young engineers and mathematicians in their late 20s and some in the early 30s, designed and built CoBra (Computer Brasov), a microcomputer compatible with Sinclair ZX Spectrum, running CP/M as well. A few years later, in the late 80's/early 90's, students in Regie, Bucharest, were building CoBra using PCB boards and components from the black market. One of those students, Jesse (Cristian Savu), rebuilt CoBra in 2016 for its 30-year anniversary. He made available all CoBra technical information that he could gather at https://www.cobrasov.com.

A few years later, Bizonul (Nicolae Muntean), another CoBra fan from the late 80's/early 90's, contacted me saying he wants to rebuild Turbo Spectrum, aka CoBra2. This was a side project of mine in the late 80's. Having joined ITC Brasov after the CoBra project started, I was not part of the CoBra key team. My only contribution to Cobra was the logo addition to the boot code, right before the product release; the technical details of it are given in chapter 4 CoBra Logo.

Turbo Spectrum was built in hindsight with learnings from the main CoBra development. In the meantime, the 64Kx1 Russian DRAM chips with a single voltage became available, as well as 8-bit registers and buffers, like 74165, 74244, 74373, 74377. Using these, and a few design tricks, the total bill of materials was about half of CoBra. Not having the time to build a prototype, I introduced the schematics directly into Pix, the PCB layout software we were using at that time. 12 PCB boards were built. I populated and brought-up the first unit myself, which included a real CoBra keyboard with engraved keycaps.

The Turbo Spectrum main board was the same size as the CoBra keyboard; it was a sandwich of 6 spacers, with taller ones placed in the back to allow for more space for the connectors, while the front spacers were lower to allow for better ergonomics. The power supply was external.

After I left Romania in February 1990, the first unit ended up with an acquaintance, who tossed it after a few years when he got bored of it. I gave the remaining PCBs and the schematics to my colleague, Bogdan Morariu, who built and sold a few before he left for Canada. The remaining were handed over to Mircea Ungur who built the remaining units.



Figure 1: Last original Turbo Spectrum

Turbo Spectrum Specification

After an unfortunate event in 2011, Mircea passed away; his family handed me a box with the last Turbo Spectrum PCB mounted inside a HC-85 case (see photo above). I brought the box to California and shelved it in the garage until Bizonul came up with the idea of rebuilding it. I liked the idea, but I kept postponing doing anything about it, mostly due to lack of time. Bizonul kept bugging me, so finally, in 2022, I made it my 2022 New Year's resolution to work on it. For the latest information about Turbo Spectrum after the release of this document, please visit https://www.cobrasov.org.

The EEPROM was on a socket. The source code was lost, but luckily the EEPROM had preserved all the information from the past 32 years since it was programmed. I was able to read it, but disassembling was a little challenging. It was using self-modifying code and undocumented Z80 instructions and features. I did recognize the coding style and did remember I took the approach to minimize everything; partly to reduce the code size, partly to simplify the schematics and reduce the number of components to the absolute minimum, but also as a personal challenge for my own nerdy enjoyment.

I proceeded to reconstitute the schematics, which were lost as well. I still remembered the design tricks I used. After inspecting the PCB using a Fluke Multimeter, I redrew the schematics, in part through reverse engineering, and in part from memory. The time then came to power-up the board. No sparks and no smoke came out of it. I inspected a few signals with an oscilloscope, and they looked alright to me. After some hesitation, I placed the probe on composite video out, and to my great surprise, it was looking right.

In a rush, I built an improvised circuit to convert the digital RGBI to VGA levels, then connected the circuit to a VGA display, but it could not synchronize to the 15KHz line frequency. Searching the internet, I found out that a Lenovo monitor Q24i-10 LED 24" accepts 15KHz line frequency and 50Hz refresh rate. I bought one, and the video was synchronizing nicely.

Amazingly, this board, built 32 years ago by my friend Mircea, who passed away 11 years ago, is still running as it did on the first day. Thank you, Mircea, and rest in peace.



Figure 2: Improvised RGBI to VGA Conversion

2 Hardware

Turbo Spectrum (TS) includes design ideas exemplative of a minimalistic design style that are worth documenting. My goal was to rebuild TS as close as possible to the original version. I fixed a few imperfections, like PCB trace cuts and extra wires, and I added RGBI to VGA conversion. Fortunately, components from the 80's can still be found. For the digital logic circuits, I choose the 74LSxx family, as they are better, easier to find, and lower cost. I used a DE-15 VGA connector in addition to the DE-9 connector, a newer speaker instead of the original graphite phone speaker (galena), and 3.5 mm audio jacks instead of the DIN-5 audio connectors. I opted to keep the 3x32 pins DIN expansion connector, although that connector is no longer manufactured and likely no expansion boards have been built for that proprietary bus since.

Due to these changes and the desire to make sure that the Turbo Spectrum PCB could be rebuilt without any flaws, unlike in 1988, I had now decided to invest the time to prototype it. I found an Augat board on eBay and purchased a wire wrap gun. The picture below shows the working rebuilt Turbo Spectrum on the morning of August 23, 2022, before the start of the Hot Chips 34 Conference. The monitor on the right shows the DRAM Timing diagram from Figure 13 on page 13. The orange box on the left is the new model of CASduino loader purchased from Pedro Almeida in Portugal (https://retro.care).



Figure 3: The rebuilding of Turbo Spectrum

Besides Z80, the 16Kx8 EEPROM and the 8 DRAM chips, the rebuilt Turbo Spectrum has 34 74LSxx digital logic circuits, 20 1N4148 diodes, 45 resistors, 21 capacitors, a PN2222A transistor, the 14 MHz crystal, DE-15 VGA and DE-9 connectors, keyboard connector, expansion connector, 3 audio jacks, 2 small speakers, the reset switch and power jack. The complete Bill of Materials can be found in section 2.14 on page 24.

The component reference designators use the following conventions: Z for Z80, M for EEPROM, M0-M7 for the DRAM chips, TS for the Trigger-Schmitt 74LS14, G and G0-G9 for logic Gates, N0-N5 for 74LSxx counters, F for 74LSxx Flops, L for 74LS373 Latch, B for 74LS244 Buffer, X0-X6 for 74LS1xx multipleXers, D* for Diodes, R* for Resistors, C* for Capacitors, T for the TN2222A transistor, J* for connectors, SPKR* for Speakers, SW for reset Switch, and XTAL for the 14 MHz crystal. In the text of the following sections, underlined characters are used for signals active LOW, for example, <u>CK1</u> is CK1 active LOW. Signals and component reference descriptors use Courier characters.

2.1 Power and Ground

Turbo Spectrum has a single +5V power domain. The CPWR 100 μ F electrolytic capacitor is used to filter out transient current spikes. In addition, the 74LS14 Trigger-Schmitt invertor TS used for clock generation and reset, Z80 Z, the final video output register F6, and all 16Kx1 DRAM chips M0-M7, have their own 0.1 μ F tantalum capacitors, next to the VCC pin to filter out current peaks and reduce switching noise.



Figure 4: Power and Ground

2.2 Clocks

Figure 5 shows the Turbo Spectrum clocking circuitry. It starts with a typical clock generation used in simple digital circuits from the early 80-ties, with 2 inverters and 680Ω resistors as feedback and a 14 MHz quartz crystal. The original IPRS β CDB404E were always locking on the crystal fundamental, but the newer 74LS04 are locking on the 3rd harmonic, at 42 MHz. 74LS14 Trigger-Schmitt invertors (TS) do not have this problem. The second inverter is followed by a third to form a clean digital 14 MHz clock, used as clock for the N0 counter (pin N0.5) and the second F0 flip-flop (pin F0.11). The XTAL component has a 3rd pin connected to GND, in case a crystal with a 3rd pin connected to the crystal case is used.





The N0 counter generates the lower clock frequencies. <u>CK1</u>, the inverted version of CK1 (7 MHz), is used as the pixel clock by the F4 video bitmap shifter (pin F4.2 in Figure 27) and by F6, the final video output register (pin F6.11 in Figure 27). CK2 is the 3.5 MHz Z80 clock (pin Z.CLK in Figure 7) and it is used also as input to the G1 gate (pin G1.5 in Figure 12), that generates the DRAM <u>RAS</u> signal.

The 390pF CCK1 capacitor is used to delay CK1, to avoid a set-up time violation for the F6 register. This is explained in section 2.8 on page 12, and the critical timing path is shown in Figure 13 DRAM Timing Diagram.

CK3 is half the Z80 clock frequency and is used to select between Z80 and video access to the dual-port DRAM (pin G1.2 in Figure 12), as input to the second F0 flip-flop (pin F0.12) that generates delayed versions CK3D and <u>CK3D</u> of CK3, as input G9.1 in Figure 12 to generate the <u>LD</u> strobe for the F4 bitmap shifter, and as S1 select to the X1-X4 DRAM address multiplexers (pin 2 in Figure 23). CK3D is used as input G5.4 to generate the GCK graphics character clock, and as input L.11 in Figure 12 to latch the DRAM data for the Z80 memory read cycle. <u>CK3D</u> is used as input to the first F0 flip-flop (pin F0.4) that sets the Z80 <u>WAIT</u> signal, as input G7.10 in Figure 12 that enables the DRAM <u>WE</u> signal, and as input G9.2 to generates the <u>LD</u> strobe for the F4 bitmap shifter.

CK4 is 1/4th Z80 clock frequency used as input G5.5 to generate the GCK graphics character clock, as input G9.4 in Figure 12 to generate the LD strobe for the F4 bitmap shifter, as inputs G2.12 in Figure 20 and X0.1 in Figure 23 to multiplex bitmap and attributes DRAM video addresses, and as input clock N1.5 in Figure 20 for the first video timing counter.

2.3 Reset

There are two reset signals, <u>PRST</u> (Power-on Reset) and HR (Hard Reset). <u>PRST</u> has an RC circuit, RPR and CPR, with a time constant of $10K\Omega * 10\mu$ F = 0.1 seconds, to keep Turbo Spectrum in the reset state until the power source stabilizes. The two Trigger-Schmitt invertors form the <u>PR</u> signal with standard digital TTL edges. HR has an RC circuit, RHR and CHR, with a time constant of $10K\Omega * 0.1\mu$ F = 1 ms, to filter glitches from the SW reset switch. The following Trigger-Schmitt invertor forms the <u>HR</u> signal with standard digital TTL edges. The final <u>RST</u> signal is an AND of <u>PR</u> and <u>HR</u>. The SW reset switch has 2 extra pins connected to GND; these are pads that coincide with the reset switch mounting holes.



Figure 6: Reset Circuitry

2.4 Z80 CPU

Z80 has a few pull-up resistors, a 330 Ω RCLK, two 10K Ω RNMI and RBR, and eight 4.7K Ω RD0-RD7. The <u>BUSREQ</u>, BUSACK, and HALT signals are not used, and the NMI and M1 signals are used only by the JEXT expansion connector.



2.5 EEPROM

The <u>WE</u> pin and the not used pin 1 (A14 for the 32Kx8 EEPROMs) are connected to VCC. Turbo Spectrum supports also 32Kx8 EEPROMs, when only the upper 16K are used.

		M		
A0 < 10	A0		VCC	28 VCC
A1 < 9	A1		GND	
A2 < 8	A2			
A3 < 7	A3		WE	27 >vcc
$A4 \leftarrow \frac{6}{2}$	A4		ĈĒ	
A5 < 5	A5		ŌE	22 > OE
A6 < 4	A6	58		
$A7 \leftarrow \frac{3}{2}$	Α7	5	D0	11 >D0
$A8 < \frac{25}{25}$	A8	57	D1	12 →D1
$A9 \leftarrow \frac{24}{3}$	A9		D2	13 →D2
A10 < 21	A10		D3	¹⁵ →D3
A11	A11		D4	16 →D4
A12	A12		D5	17 D5
A13 < 26	A13		D6	18 →D6
vcc < 1	NC		D7	¹⁹ → D7

Figure 8: 16Kx8 EEPROM

2.6 DRAM

Turbo Spectrum has eight 64Kx1 DRAM chips. Pin 1 of the DRAM chips are not connected inside the package but are connected to GND in Turbo Spectrum to facilitate wider GND traces in the densely populated board.

	MØ	M1	M2	М3
XA1 < / A1		$XA1 \leftarrow 7$ A1 GND $16 \rightarrow$ GND		
×A2 ← A2		$XA2 \leftarrow A2 \leftarrow NC \rightarrow GND$	$XA2 \leftarrow A2 \leftarrow NC \rightarrow GND$	$XA2 \leftarrow A2 \leftarrow NC \rightarrow GND$
×A3 <1 A3			$XA3 \leftarrow IZ A3 \xrightarrow{2} RAS \xrightarrow{4} RAS$	
XA4 < ¹⁰ A4				
XA5				
		$XA6 \stackrel{IS}{\longleftarrow} A6 \qquad DI \stackrel{I}{\longrightarrow} D1$		
XA7 🗲 A7				
-	M4	M5	M6	M7
xa0 < 5 A0				
XA0 < 5 A0 XA1 < 7 A1		$ \begin{array}{c} M5 \\ x_{A0} \leftarrow 5 \\ x_{A1} \leftarrow 7 \\ x_{A1$	$\begin{array}{c c} M6 \\ xa0 \leftarrow 5 \\ xa1 \leftarrow 7 \\ xa1 \leftarrow 7 \\ A1 \\ CND \\ CND \\ A1 \\ CND \\$	M7 $xa0 < 5 A0 VCC = 8 VCC$ $xa1 < 7 A1 GND = 16 GND$
$\begin{array}{c c} x \land a @ < 5 & A @ \\ x \land 1 < 7 & A 1 \\ x \land 2 < 6 & A 2 \end{array}$	M4 VCC 8 GND 16 GND 1 GND	$ \begin{array}{c c} M5 \\ \hline XA0 \leftarrow 5 \\ XA1 \leftarrow 7 \\ XA1 \leftarrow 7 \\ XA2 \leftarrow 6 \\ A2 \leftarrow NC \\ \hline MC \\ \hline MS \\ A2 \\ \hline MS \\ \hline MS \\ A3 \\ \hline MS \\ \hline \ \ MS \\ \hline \ MS \\ \hline \ MS \\ \hline \ \ MS \\ \hline \ MS \\ \hline \ MS \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\begin{array}{c c} M6 \\ \hline XA0 \leftarrow 5 \\ XA1 \leftarrow 7 \\ XA1 \leftarrow 7 \\ XA2 \leftarrow 6 \\ A2 \\ L \\ MC \\ A2 \\ MC \\ MC \\ A2 \\ MC \\ M$	
$\begin{array}{c c} xa0 \leftarrow 5 & A0 \\ xa1 \leftarrow 7 & A1 \\ xa2 \leftarrow 6 & A2 \\ xa3 \leftarrow 12 & A3 \end{array}$		$\begin{array}{c c} M5 \\ \hline XA0 \leftarrow 5 \\ XA1 \leftarrow 7 \\ A1 \\ XA2 \leftarrow 6 \\ A2 \\ XA3 \leftarrow 12 \\ A3 \\ \hline XA3 \\ $	$\begin{array}{c c} M6 \\ \hline XA0 \leftarrow 5 \\ XA1 \leftarrow 7 \\ XA1 \leftarrow 6 \\ XA3 \leftarrow 12 \\ A3 \leftarrow 12 \\ RAS \leftarrow 12 \\ RAS$	$M7$ $xa0 \leftarrow 5 A0 VCC \xrightarrow{8} VCC$ $xa1 \leftarrow 7 A1 GND \xrightarrow{16} GND$ $xa2 \leftarrow 6 A2 NC \xrightarrow{1} GND$ $xa3 \leftarrow 12 A3 \xrightarrow{1} RAS \xrightarrow{1} FRAS$
$\begin{array}{c c} xa0 \leftarrow 5 & A0 \\ xa1 \leftarrow 7 & A1 \\ xa2 \leftarrow 6 & A2 \\ xa3 \leftarrow 12 & A3 \\ xa4 \leftarrow 10 & A4 \end{array}$	$\begin{array}{c c} M4 \\ \hline VCC & 8 \\ GND & 16 \\ GND & 1 \\ \hline SRAS & 4 \\ \hline CAS & 15 \\ \hline CAS & 15$	$\begin{array}{c c} M5 \\ \hline XA0 \leftarrow 5 \\ XA1 \leftarrow 7 \\ A1 \\ A2 \leftarrow 6 \\ A2 \\ A3 \leftarrow 12 \\ A3 \leftarrow 12 \\ A4 \leftarrow 10 \\ A4 \\ CAS \\ A5 \\ $	$\begin{array}{c c} M6 \\ \hline XA0 \leftarrow 5 \\ XA1 \leftarrow 7 \\ XA2 \leftarrow 6 \\ XA3 \leftarrow 12 \\ XA3 \leftarrow 12 \\ XA3 \leftarrow 12 \\ A3 \leftarrow 12 \\ A4 \leftarrow 10 \\ A4 \leftarrow 7 \\ CAS \\ A5 \\ CAS \\ CAS \\ A5 \\ CAS \\ A5 \\ CAS \\ A5 \\ CAS \\ A5 \\ CAS \\ $	$\begin{array}{c c} M7 \\ \hline XA0 \leftarrow 5 \\ XA1 \leftarrow 7 \\ XA1 \leftarrow 7 \\ A1 \\ XA2 \leftarrow 6 \\ XA3 \leftarrow 12 \\ XA3 \leftarrow 12 \\ XA4 \leftarrow 11 \\ A4 \\ CA5 \\ CA5$
x = 0 + 5 x =	M4 VCC 8 GND 1 C 16 GND 1 C 200 VCC 10 GND 1 C 200 VCC 10 C 200 VCC 10 VCC 10 C 200 VCC 10 VCC 10 VCCC 10 VCC 10 VCC 10 VCC 10 VCC 10 VCC 10 VCC 10 VCC 10 V	$\begin{array}{c c} M5 \\ \hline XA0 \leftarrow 5 \\ XA1 \leftarrow 7 \\ XA2 \leftarrow 6 \\ XA2 \leftarrow 6 \\ A2 \\ XA3 \leftarrow 12 \\ XA3 \leftarrow 11 \\ A4 \\ XA5 \leftarrow 10 \\ A5 \\ CAS $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
x = 0 + 5 x =	M4 VCC B VCC GND 16 GND NC 4 ARAS 4 GRAD 4 GRAD	M5 xA0 = 5 xA1 = 7 XA1 = 6 XA1 = 6 XA2 = 6 XA2 = 6 XA2 = 6 XA3 = 12 XA3 = 12	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	M7 xA0 \$ A0 VCC 8 VCC 16 CND xA2 \$ A1 GND 16 CND xA3 \$ A2 N C ND 1 CND 4 CAS xA3 \$ A2 N C ND 4 CAS xA4 \$ A3 \$ RAS xA4 \$ A5 \$ WE 3 WE 2 D7 XA6 \$ A6 DI 16 CAS
	M4 VCC 8 VCC GND 16 GND NC 1 GND X RAS 15 CAS WE 3 WE DI 2 D4 DO	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $



2.7 Operating Modes and Memory Organization

The two F2 flops drive the <u>CE</u> (EEPROM Chip Enable) and SM (Spectrum Mode) signals. <u>CE</u> is connected directly to the EEPROM CE pin. Turbo Spectrum can operate in one of 3 modes:

- 1. EEPROM Mode: <u>CE</u>=0 (enabled EEPROM) and SM=0;
- 2. 64K DRAM Mode: <u>CE</u>=1 (disabled EEPROM, 64K DRAM) and SM=0;
- 3. Spectrum Mode: <u>CE</u>=1 (disabled EEPROM, 64K DRAM) and SM=1.

<u>RST</u> resets both flops. When not in Spectrum Mode (SM=0 and <u>SM</u>=1), Z80 address bit A15 is inverted to X15 before it is used to generate the DRAM address (video memory starts at 0c000h). The <u>IE</u> signal is connected to the Output Enable pins B.1 and B.19 in Figure 24, the 74LS244 buffer driving the Z80 data bus when an in instruction is executed.



Figure 10: Operating Modes

The F5 74LS377 register in Figure 24 is used as output port. Whenever an out instruction is executed at any even address (A0=0), for example 0feh, the output data byte is stored to F5; the stored bit 5 (Q5) is used as input to the <u>CE</u> flop and bit 6 (Q6) as input to the SM flop; output port bits 5 and 6 are not used by Spectrum. Any in instruction loads those bits to the <u>CE</u> and SM flops. When SM becomes 1 (<u>SM</u>=0), the <u>CE</u> and SM flops are set to 1, from where they can come out only when RST=0.

Figure 11 shows the Turbo Spectrum memory organization for all three modes; the shaded memory areas are Read-Only. In Spectrum Mode, EEPROM is disabled, the Spectrum Basic executes out of DRAM, and writes are not permitted to the first 16K. This is necessary because some games do write to the first 16K which should behave as NOPs without any side effects.





2.8 DRAM Controller

The basic idea that led to the simple dual-port DRAM controller shown in Figure 12 is that CK2, the 3.5 MHz clock, is used both as the Z80 clock (Z.CLK) and as the DRAM <u>RAS</u> signal, driven by G1.6. <u>RAS</u> is enabled by DA (DRAM Access), which is set when CK3=0 (video access) OR <u>DRQ=0</u> (DRAM Request), whenever Z80 wants DRAM access. This happens when MRQ (non-refresh Memory Request, <u>MREQ=0</u> AND <u>RFSH=1</u>) AND DE (DRAM Enable) are high. DE=1 when access to memory beyond 04000h is desired (A15=1 OR A14=1) OR <u>DO</u>=0, which happens when <u>CE</u>=1 (disabled EEPROM, 64K DRAM) AND, this is a read (<u>RD</u>=0) OR a write in non-Spectrum mode (SM=1).



Figure 12: DRAM Controller

Figure 13 is the DRAM Timing Diagram that includes the CK, CK1, <u>CK1</u>, CK2, CK3, CK3D, <u>CK3D</u>, CK4 clocks, the H[5:0] character and V[8:0] video line counters, the DA, <u>RAS</u>, <u>MUX</u>, <u>CAS</u>, <u>WE</u> control signals, XA[7:0] multipleXed DRAM address, MD[7:0] DRAM read data, the <u>LD</u> strobe for the F4 bitmap shifter, S0–S4 serial bitmap bits, the GCK graphics character clock, the G[7:0] color attribute from F3 output, <u>PS</u> (Paper Select) that muxes Ink and Paper, G[RGBI] at the X5 output, <u>HVB</u> (Horizontal-Vertical Border) that muxes Screen and Border, X[RGBI] at the X6 output, and V[RGBI] the final pixel value out of F6.

Active clock edges have an arrow and dotted lines are possible levels when Z80 wants DRAM access. The Figure 13 DRAM Timing Diagram includes the typical signal delays caused by the intrinsic gate delays and by the extra delay introduced by resistors and capacitors.

<u>MUX</u> is a delayed version of <u>RAS</u>, and is used as select for X1-X4, to multiplex the DRAM Row and Column Address. <u>MUX</u> is further delayed by the RD and CD circuit, with a time constant of $220\Omega * 220\text{pF} = 48$ ns to form <u>CAS</u>.

DRD=1 when $\underline{DRQ}=0$ AND $\underline{RD}=0$, i.e. whenever Z80 wants to read from DRAM. \underline{DRD} , the inverted version, is used as Output Enable for the L latch that stores the MD[7:0] DRAM read data, which is latched on the falling edge of CK3D.

As Z80 drives <u>WR</u> late in the memory write cycle, <u>DRD</u>=0 is used to drive DRAM <u>WE</u>=0 when <u>CK3D</u>=0, i.e. during the Z80 DRAM access slot.

Figure 13 DRAM Timing Diagram also shows the critical timing path; relevant active clock edges are shown in bold. It starts from the first CK edge in cycle 6, shown in bold, and the timing dependencies are shown with blue arrow lines. The rising edge of CK3D, driven by F0.9, comes out with a typical delay of 13 ns and a maximum delay of 25 ns; the 13–25 interval is shown in the diagram above the rising edge of CK3D. The rising edge of GCK, driven by G5.6, comes out with a delay of 14–22 ns, then G[7:0] has a delay of 17-27 ns, G[RGBI] has 9-14 ns, X[RGBI] has 9-14 ns, for a total delay from the first CK edge in cycle 6 of **62–102** ns, shown in bold below the X[RGBI] waveform.

X[RGBI] is being latched into the final F6 register on the following rising edge of <u>CK1</u>. This is derived from the second CK edge in cycle 6, which comes with a delay of 71.4 ns after the first edge; timing dependencies of <u>CK1</u> are shown with red arrow lines. The falling edge of CK1, driven by N0.3, comes out with a delay of 30–47 ns, and the following rising edge of <u>CK1</u>, driven by G. 8, comes out with a delay of 9–15 ns, for a total delay from the first CK edge in cycle 6 of **110–133** ns. Inputs to F6 need min. 20 ns set-up time; this is typically met, but depending on the ICs used, the X[RGBI] set-up time can be anything between 8–71 ns. To avoid a possible timing violation, a 390pF CCK1 capacitor is used to delay CK1.

cycle CK			2	3	4		5	6 1	<u>ر</u>	7 _/`		B	, ^^	9 \/`		10 \/		11 _/^	12	13	\wedge	14 /\/\	15	
CK1								71.4	30-47				_ /											-
CK1						\int			9-15											\square	ſ			ſ
CK2									110-	-133														
СКЗ			/											/	<u> </u>									
CK3D	<u> </u>							13-25								/								-
CK3D																								_
CK4	1																							-
H[5:0]	K	lorizontal	characte	r 0 to 31	in N1, N	2 (H[5	:0] =	020h -	03fh	1)	Χ_													X
V[8:0]	X	Vertical li	ne 0 to 1	91 in N2,	N3, N4	(V[8:0)] = 00	0h - 0	bfh)		Χ_													X
DA			·							/	/			```				/	/				/	Γ
RAS			/	`	/		/	/ <u> </u>	`_		,				\square		`		;		_/		`	,
MUX				`	/				``_		,′						`		,'				`	,
CAS				` <u></u> `	/					`	/	,				\square		` <u>`</u>	/				`	_
WE			`		/			``_				,				`			/			` <u>`</u>		-
	\neg					_																		$\langle \rangle$
XA[7:0]	_X	RA XVCA	XX pr	A XPCA	XX VF	RA X	VCA	ДР	੨∧ੁੰ	× PCA	XX	VRA	\	VCA	XX	PR	AX	PCA	XX vi	RA XV	CAX	X PR/	a ∑pca	X
XA[7:0] MD[7:0]		XA XVCA	XX PR VB	A XPCA	√∑́VF -√PR)→	8A X	VCA	() P (VA)-	7 A)	× PCA		VRA	•	VCA	.XX -{ve	PR	a	PCA	XX vi ≺(PR)→	ra Xv	саХ — (VA)	A	Ň -(
XA[7:0] MD[7:0] LD			XX PR -{VB}	A XPCA	.XX VF -√PR) itmap in	RA X	VCA	VA VA ft out	RA on S	× PCA	-< <u>₽</u>	VR4	•	VCA	.X X -{ve -\v	PR 3>	A }	PCA	X∑ vi ⊰(PR)→	7A X V	саХ — (⁻	X PR/	A	× ≺(
XA[7:0] MD[7:0] LD S0			VB √loa√√	A YPCA d video b	XX VF -{PR} pitmap in X 5	RA X	VCA nd sh 4	VA VA ft out	RA on Si	× PCA		VR4	• 	0 VCA		PR 3>	A X	PCA	<u> </u>		CA X	VA)		× -()
XA[7:0] MD[7:0] LD S0 S1		X	VB √Ioa √	A) ∕ PCA d video k X 6 X 7	x X X VF → (PR)→ itmap in X 5 X 6	RA X	VCA nd sh 4 5	P VA ft out 3 4	Drn Si	2 3		VR4	• X X	0 1		PR 3)		PCA	<u> </u>			<u>v</u> a) 	x	X - X X
XA[7:0] MD[7:0] LD S0 S1 S2		x Xvca X X	X PR √VB √loa 7 X	A) PCA d video b X 6 X 7	X → VF PR→ oitmap in X 5 X 6 X 7	RA X	VCA nd sh 4 5 6	P VA ft out 3 4 5	DIN SI	× PCA		VR4		0 1 2		PR 3		PCA	X <u>x</u> vi -{ <u>P</u> R} X X X	× × ×		<u> </u>	XX	X X X X X X X X
XA[7:0] MD[7:0] LD S0 S1 S2 S3		X	XX PR VB 10a 7 X X X	A X PCA	$\langle \dot{PR} \rangle$ - $\langle PR \rangle$ - itmap in $\langle 5 \rangle$ $\langle 6 \rangle$ $\langle 7 \rangle$	TF4 al	VCA nd sh 4 5 6 7	P VA ft out 3 4 5 6	n Si	× PCA		VR4		VCA 0 1 2 3		PR 3 / (0 1 2		PCA 0					X X X X	X
XA[7:0] MD[7:0] LD S0 S1 S2 S3 S4			X PR VB 102 7 X X X X X	A X PCA	<pre>X / VF -(PR) itmap in X 5 X 6 X 7 X</pre>	TA X	VCA nd sh 4 5 6 7	VA ft out 3 4 5 6 7		× PCA		VR4 1 2 3 4 5	¥_X X X X X X	VCA 0 1 2 3 4		PR 3		PCA 0 1 2	X X VI - (PR)				X X X X X	X () X X X X X X X X X X X X X
XA[7:0] MD[7:0] LD S0 S1 S2 S3 S4 GCK			XX PR VB V loa X 7 X X X X X X X	A X PCA	<pre>X Y VF <(PR) itmap in X 5 X 6 X 7 X </pre>	TA X	VCA nd sh 4 5 6 7	VA ft out 3 4 5 6 7 14-2		2 3 4 5 6		VR4 1 2 3 4 5	¥_X X X X X	0 1 2 3 4		PR 3)		PCA 0 1 2	X vi -(PR)				X X X X X	X (XXXXX)
XA[7:0] MD[7:0] LD S0 S1 S2 S3 S3 S4 GCK G[7:0]			X PR VB 102 7 X X X X X	A X PCA	<pre></pre>	33A X 1 F4 a X X X	VCA	VA 	RA	0 2 3 4 5 6		VRA 1 2 3 4 5	а (Х. Х. Х. Х. F3 с	0 1 2 3 4		PR 3)	A) X X X X X	PCA 0 1 2 ibute	X X VI (PR)				X X X X X	$X \leftarrow X \times X \times X = =$
XA[7:0] MD[7:0] LD S0 S1 S2 S3 S4 GCK G[7:0] PS			X PR VB 102 7 X X X X X X X	A X PCA	<pre>X Y VF -(PR)- itmap in X 5 X 6 X 7 X </pre>	F4 al	VCA) nd sh 4 5 6 7	VA VA ft out 3 4 5 6 7 14-2 7 7 7 7 7	PA	2 0 2 3 4 5 6 6		VRA 1 2 3 4 5 5 5	A X X X X F3 c	0 1 2 3 4 0 0 1 2 3 4		PR 3 1 2 3 <i>i</i> /idec 3	A	PCA 0 1 2 ibute 2	X VI (PR)				X X X X X X	
XA[7:0] MD[7:0] LD S0 S1 S2 S3 S4 GCK G[7:0] PS G[RGBI]			X PR VB 10a 7 X X X X X X X X X	A X PCA	<pre>X Y VF -(PR)</pre>	RA X	VCA	VA VA 1t out 3 (4 5 (6 7 7 14-2 7 7 7 7 7 9 9 8	PA D S X X X X X X X X	2 0 2 3 4 5 6 6 6		VRA 1 2 3 4 5 5 5 5	× X X X X X X X X X	0 1 2 3 4 5 00tpu 4 4 4		PR 3 7 7 0 1 2 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	A X X X X X X X X	PCA 0 1 2 ibute 2 2 2	X YI (PR)				X X X X X X X X	×<́ ×××××× = = = = =
XA[7:0] MD[7:0] LD S0 S1 S2 S3 S4 GCK G[7:0] PS G[RGB]] HVB			X PR VB 1000 7 7 X X X X X X X X X X	A X PCA	<pre>X Y VF <(PR) itmap in X 5 X 6 X 7 X X X X X X X X X X X X X X X X X X</pre>	774 A	VCA	VA VA ft out 3 4 5 6 7 14-2 7 14-2 7 7 8 X 7 8 X 7 8 X 7 8 X 7 8 X 7 8 X 7 8 X 8	PA on Si X X 2 2 2 7	2 0 2 3 4 5 6 6 6 (6 6		VR4 1 2 3 4 5 5 5 5	x X X X X X X X X	0 1 2 3 4 0 0 1 2 3 4 4 4 4		PR 3 1 2 3 <i>i</i> /idec 3 3 3	A X	PCA 0 1 2 ibute 2 2 2	X X VI (PR)				X X X X X X X	\times $($ \times \times \times \times \times \times \times $ =$ $=$ $=$
XA[7:0] MD[7:0] LD S0 S1 S2 S3 S4 G[7:0] PS G[RGBI] HVB X[RGBI]				A X PCA	<pre>X Y VF (PR) (PR) X 5 X 6 X 7 X X X X X X X X X X X X X</pre>	TA X	VCA		PA , on Si X X 2 2 2 7 14 7	2 0 2 3 4 5 6 6 6 2 6 6 2 6		VR4 1 2 3 3 4 5 5 5 5 5 5	× X X X X X X X X X X	0 1 2 3 4 0 0 1 2 3 4 4		PR 3 1 0 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3		0 1 2 2 2 2 (2	X X VI (PR)				X X X X X X X X X X X	× << - × × × × × × × × × × × × × × × × ×

Legend for XA[7:0]:

Legend for MD[7:0]:

VRA: Video Row Address VCA: Video Column Address PRA: Processor Row Address PCA: Processor Column Address

- PR: Processor Read
- VB: Video Bitmap VA: Video Attributes

Figure 13: DRAM Timing Diagram

2.9 Z80 DRAM Access

Because Z80 can access DRAM only when CK3=1, i.e., every other Z80 clock cycle, there are two possible phases. Figure 14 through Figure 19 show all possible Z80 memory cycles for both phases. Relevant active clock edges have an arrow and are shown in bold. <u>RAS</u> and <u>CAS</u> cycles and MD[7:0] data used by Z80 are shown in bold, too. The dual-port DRAM controller does not impact the Z80 memory write cycles, but 50% of the Z80 memory read cycles have one WAIT state.

Figure 14 shows phase 0 of the Z80 M1 Cycle, which coincides with CK3=1, when no wait state is required. The rising edge of DRD is used to clear <u>WAIT</u>, but <u>CK3D</u>=0, the delayed and inverted CK3, prevents that by keeping the flop SET input LOW, so no wait state is inserted. The MD[7:0] data is latched into L on the falling edge of CK3D, and is read by Z80 on the following rising edge of CK2.



Figure 14: Z80 M1 Cycle, phase 0

Figure 15 shows phase 1 of the Z80 M1 Cycle, which coincides with CK3=0, when a wait state is required. The rising edge of DRD is used to clear <u>WAIT</u>; this time <u>CK3D</u>=1, so a wait state is inserted on the following falling edge of CK2. The MD[7:0] data is latched into L on the falling edge of CK3D, and is read by Z80 on the following rising edge of CK2.



Figure 15: Z80 M1 Cycle, phase 1

Z80 Memory Read Cycles are half a CLK state longer than M1 Cycles, but that's not sufficient to avoid wait states. Figure 16 shows phase 0 of the Z80 Memory Read Cycle, which coincides with CK3=1, when no wait state is required. The rising edge of DRD is used to clear <u>WAIT</u>, but <u>CK3D</u>=0, so no wait state is inserted. The MD[7:0] data is latched into L on the falling edge of CK3D, and is read by Z80 on the following falling edge of CK2.



Figure 16: Z80 Memory Read Cycle, phase 0

Figure 17 shows phase 1 of the Z80 Memory Read Cycle, which coincides with CK3=0, when a wait state is required. The rising edge of DRD is used to clear <u>WAIT</u>; this time <u>CK3D</u>=1, so a wait state is inserted on the following falling edge of CK2. The MD[7:0] data is latched into L on the falling edge of CK3D, and is read by Z80 on the following falling edge of CK2.



Figure 17: Z80 Memory Read Cycle, phase 1

Z80 Memory Write Cycles are longer than Read Cycles, so wait states can be avoided for both phases. Figure 18 shows phase 0 of the Z80 Memory Write Cycle, which coincides with CK3=1, when the Z80 D[7:0] data is written during the T2 cycle. Figure 19 shows phase 1 of the Z80 Memory Write Cycle, which coincides with CK3=0, when the Z80 D[7:0] data is written during the T3 cycle.









2.10 Video Controller

The N1-N4 ripple counters implement the H[5:0] character and V[8:0] video line counters. CK4 is the input clock with a frequency of 7/8 MHz and a cycle time of $8/7 = 1.14 \mu s$. The two F1 flops are used to synchronize <u>PHVS</u> and <u>PHVB</u> (Pre-Horizontal & Vertical Sync and Border) with GCK, the graphics character clock; the outputs are HVS and <u>HVB</u>, the Horizontal & Vertical Sync and Border. The N5 counter is used to further subdivide the video frame frequency by 8 to obtain V12, the character flush frequency of 50/8 = 6.25 Hz. Figure 21 is the video line timing and Figure 22 is the video frame timing.



Figure 20: Video Controller

After H[5:0] wraps around, the <u>HLD</u> (Horizontal Load) pulse is generated which loads H[5:0] with 8, so H[5:0] counts from 8 to 63; there are 56 CK4 cycles, so the line time is 56 * $8/7 = 64 \mu s$. Cycles 32 to 63 (H5=1) are the active line time, cycles 8 to 31 (H5=0) are the horizontal border, cycles 16 to 23 (<u>HBL</u>=0) are the Horizontal Blanking, and cycles 16 to 19 (PHS=0) are the Pre-Horizontal Sync.





When V[8:0] reaches 320, VCLR is set which clears the N1-N4 counters, so V[8:0] counts from 0 to 319; there are 320 lines, so the frame time is 320 * 64µs = 20.48 ms. The first 192 lines (<u>PVB</u>=1) is the active frame time, lines 192 to 319 (<u>PVB</u>=0) is the Pre-Vertical Border, lines 248 to 255 (VBL=1) is the Pre-Vertical Blanking and (<u>PVS</u>=0) Pre-Vertical Sync. The INT Interrupt is asserted during the last Vertical Sync line 191, while HBL=0 (Horizontal Blanking).

VXX is used to generate one of the DRAM address bits, and \underline{PS} (Paper Select) is the select signal that muxes Ink and Paper. \underline{PS} is the XOR of S4, the final pixel value, with FLSH, the Flush character attribute (G7) AND V12, the character flush frequency of 50/8 = 6.25 Hz.



Figure 22: Video Frame Timing

2.11 DRAM Addressing

The DRAM address is driven by the X1-X4 4:1 multiplexers. CK3 selects either the video (CK3=0) or Z80 (CK3=1) address, and <u>MUX</u>, which is an inverted and delayed CK2, selects either the Row (<u>MUX</u>=1) or Column (<u>MUX</u>=0) address. For video address, the X0 2:1 multiplexer further selects either the bitmap (CK4=1) or attribute (CK4=0) video address.

	xø)				X1						X2					Х3					X4		
V6 < 2 A	0	VCC		V3 <	6 A0	\	/CC		v	5 < 6	A0	\	/CC		VX3	6 A0		VCC		vcc <	- A0	١	VCC	
V0 <_ 3 B	0	GND		H0 <	5 B0	(GND		н	2 < 5	B0	(GND -		H4 ∢	5 B0		GND		VX1<5	- BØ	(GND	
V7 < 5 A	1 5	Y0	<u></u> 4→∨x0	A5 <	4 C0	33	ĒØ		A	7←4	CØ	23	<u>E0</u>		A12	<u>.</u> 4 C0	23	E0		A14	C0	33	E0	
V1 < 6 B	1 6	Y1	$\frac{7}{2}$ VX1	A0 <	3 D0	5	Y0	7 × XA0	A	$2 \leftarrow \frac{3}{4}$	D0	5	Y0 -	7 XA2	A4	- 3 D0	3	Y0	7 XA4	A9 < 3	D0	5	Y0	7 XA6
	<u>بَ</u> 2	Y2	⁹ →VX2	V4 <	10 A1	Ϋ́	Ē1	15 GND	VX	2 <¹⁰	A1	Ě	E1		GND◀	10 A1	نٽ	Ē1	GND		A1	Ě	E1	GND
V6 <¹⁰ B	2	Y3	12 VX3	H1 €	11 B1	4	Y1	9 XA1	н	3 <11	B1	4	Y1	⁹ →XA3	VX0<	- <u>11</u> B1	4	Y1	⁹ →XA5	$vxx \leftarrow \frac{1}{2}$	B1	4	Y1	⁹ XA7
	3	Ē		A6 <	12 C1		S1	² >скз	A	11 <12	C1		S1 -	² >скз	A13<	12 C1		S1	² >скз	X15 < 12	- C1		S1	² CK3
v7 <¹³ B	3	S	>ск₄	A1 <	D1		SØ		Α	3 <¹³	D1		SØ -		A8 <	13 D1		SØ		A10 <¹³	- D1		SØ -	

Figure 23: DRAM Address Multiplexers

Table 1 shows how the address bits are multiplexed. Low address bits are used as Row address (DRAM page), so every 8 lines ($8 * 64\mu s = 0.512 \text{ ms}$) all DRAM pages are automatically refreshed, and no additional refresh cycles are needed.

CK4	CK3	CK2	{XA7, XA6, XA5, XA4, XA3, XA2, XA1, XA0} Description
х	1	0	{A10, A9, A8, A4, A3, A2, A1, A0} Z80 Row Address
х	1	1	{X15,A14,A13,A12,A11, A7, A6, A5} Z80 Column Address
1	0	0	{ V2, V1, V0, H4, H3, H2, H1, H0} Video Bitmap Row Address
1	0	1	{ 0, 1, 0, V7, V6, V5, V4, V3} Video Bitmap Column Address
0	0	0	{ 0, V7, V6, H4, H3, H2, H1, H0} Video Attribute Row Address
0	0	1	{ 0, 1, 0, 1, 1, V5, V4, V3} Video Attribute Column Address

Table 1: DRAM Address

2.12 Input/Output

The F5 74LS377 register is used as output port. Whenever an out instruction is executed at any even address (A0=0), for example 0feh, the output data byte is stored to F5. Bits Q[2:0] set the border color, Q3 is used as output for tape recording, similar to CoBra, Q4 is the audio output, Q5 enables/disables the EEPROM, Q6 sets the Spectrum mode, and Q7 is not used. Any in instruction loads the Q5 and Q6 bits to the <u>CE</u> and SM flops (see section 2.7 Operating Modes on page 10).

The B 74LS244 buffer is used as input port. Whenever an in instruction is executed from any even address (A0=0), for example 0feh, Z80 reads the K[7:0] bus. Bits K[5:0] are driven by the keyboard, same as for CoBra, K6 is the tape input, and K7 is not used.

	F	5				В	
$A0 \leftarrow 1$ $IOWR \leftarrow 3$ $D0 \leftarrow 4$ $D2 \leftarrow 7$ $D3 \leftarrow 13$ $D4 \leftarrow 13$ $D5 \leftarrow 17$	CE CLK DØ D1 D2 D3 D4 D5	5 VCC GND Q0 Q1 Q2 Q3 Q4 Q5	28 VCC 10 GND 2 Q0 5 Q1 6 Q2 9 Q3 12 Q4 15 Q5	$ \begin{array}{c} 1 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4$	OE0 OE1 A00 A01 A02 A03 A10 A11	B VCC GND Y00 Y002 Y02 Y03 Y10 Y110 Y11	20 VCC 10 GND 18 D7 16 D6 14 D5 12 D4 9 D3 7 D2
D6 <17 D7 < 18	D6 D7	Q6 Q7	16 26 19 Q7	к1 <15 к0 < 17	A12 A13	Y12 Y13	5→D1 3→D0

Figure 24: Input/Output

2.12.1 Keyboard and Audio Output

Turbo Spectrum uses the same 2x10 pin keyboard connector as CoBra, with eight 1N4148 diodes and six 4.7K Ω pull-up resistors. The Q4 audio output is connected to a 10 μ F electrolytic capacitor, with the other end (SPKR) connected to a speaker, to a pin of the keyboard connector, and to an audio jack through a 10K Ω resistor. The JAO Audio Output Jack has 2 extra pins, A and B, connected to GND; these are pads that coincide with the audio jack protruding pins.



Figure 25: Keyboard and Audio Output

2.12.2 Tape Input and Output

The Tape Output is similar to CoBra, Q3 is connected to an audio jack through two $10K\Omega$ resistors and two 1N4148 diodes for voltage surge protection.

The Tape Input no longer comes from a cassette player, but from CASduino which drives a digital signal. Therefore, the LM741 Op Amp and the -5V voltage are no longer needed and the input circuit is greatly simplified. As CASduino does not provide the sound we got used to from the 80-ties, I added another small speaker to reproduce that audio experience.



Figure 26: Tape Input and Output

2.13 Video Pipeline

The video bitmap byte is latched in the F4 register on the rising edge of <u>LD</u> and is shifted out on the S0 pin and is further delayed by the F6 register, being shifted on the rising edge of <u>CK1</u> as S1-S4, until the attribute byte is loaded in the F3 register on the rising edge of GCK.

The Ink {G6, G2, G1, G0} and Paper {G6, G2, G1, G0} bits are muxed by X5 to {GI, GG, GR, GB} using <u>PS</u> as select, then the Screen pixel {GG, GR, GB, GO} and Border {Q2, Q1, Q0, 0} are muxed by X6 to {XG, XR, XB, XI} using <u>HVB</u> as select and HVBL to blank out the output (set to 0), which is loaded on the rising edge of <u>CK1</u> in the final F6 register that drives {VG, VR, VB, VI}.



Figure 27: Video Output

In between the X5 and X6 multiplexers, GI is transformed to GO to convert bright black $\{0, 0, 0, 1\}$ to black $\{0, 0, 0, 0\}$. The logical function for this is GO = (R | G | B) & GI, which can't be implemented with a single 74LSxx circuit. In Turbo Spectrum, this was implemented with 5 diodes and 2 resistors as shown in Figure 28.



Figure 28: Bright Black to Black Conversion

2.13.1 RGBI and VGA Outputs

The original Turbo Spectrum had a DE-9 connector for the RGBI digital output and composite video signal for black-andwhite monitors, which was preserved in the rebuilt version. In addition, a VGA connector and a simple RGBI to VGA conversion circuit was added, which consists of 3 diodes and 4 resistors, plus 4 capacitors to filter out some of the high frequency switching noise introduced by the final F6 register. HVS is used as both HSync and VSync on pins 13 and 14 of the VGA connector; this proved to work well for the Lenovo Q24i-10 LED 24" monitor.





2.14 Bill of Materials

RefDes	Name	Value	RefDes	Name	Value	1	RefDes	Name	Value	RefDes	Name	Value
В	74LS244		DGR	1N4148			M2	64Kx1		RK4	RES300	4K7
CAO	CAP080F	R 10uF	DK6+	1N4148			M3	64Kx1		RK5	RES300	4K7
СВ	CAP100	220pF	DK6-	1N4148			M4	64Kx1		RK6	RES300	220
CCK1	CAP100	390pF	DR	1N4148			M5	64Kx1		RMUX	RES300	220
CD	CAP100	220pF	DTO0	1N4148			M6	64Kx1		RNMI	RES300	10K
CF6	CAP100	0.1uF	DTO1	1N4148			M7	64Kx1		RPR	RES300	10K
CG	CAP100	220pF	FO	74LS74			NO	74LS193		RQ3	RES300	10K
CHR	CAP100	0.1uF	F1	74LS74			N1	74LS193		RR	RES300	470
CI	CAP100	220pF	F2	74LS74			N2	74LS193		RRAS	RES300	33
СМО	CAP100	0.1uF	F3	74LS377			N3	74LS193		RS	RES300	270
CM1	CAP100	0.1uF	F4	74LS165			N4	74LS193		RTI	RES300	220
CM2	CAP100	0.1uF	F5	74LS377			N5	74LS93		RTO	RES300	10K
СМЗ	CAP100	0.1uF	F6	74LS377			RAO	RES300	10K	RVB	RES300	1K
CM4	CAP100	0.1uF	G	74LS04			RB	RES300	470	RVC	RES300	75
CM5	CAP100	0.1uF	G0	74LS00			RBR	RES300	10K	RVCC	RES300	120
CM6	CAP100	0.1uF	G1	74LS00			RCAS	RES300	33	RVG	RES300	240
CM7	CAP100	0.1uF	G2	74LS08			RCLK	RES300	330	RVI	RES300	2K2
CPR	CAP080F	R 10uF	G3	74LS08			RD	RES300	220	RVR	RES300	470
CPWR	CAP100F	R 100uF	G4	74LS02			RD0	RES300	4K7	RWE	RES300	33
CR	CAP100	220pF	G5	74LS32			RD1	RES300	4K7	RX0	RES300	680
СТ	CAP100	0.1uF	G6	74LS32			RD2	RES300	4K7	RX1	RES300	680
CZ	CAP100	0.1uF	G7	74LS32			RD3	RES300	4K7	SPKR	SPKR30	
DA8	1N4148		G8	74LS86			RD4	RES300	4K7	SPKRTI	SPKR16	
DA9	1N4148		G9	74LS20			RD5	RES300	4K7	SW	SWITCH	
DA10	1N4148		JAO	Audio Ja	ck		RD6	RES300	4K7	Т	PN22224	4
DA11	1N4148		JEXT	CON3x32	2		RD7	RES300	4K7	TS	74LS14	
DA12	1N4148		ЈКВ	CON2x1	C		RG	RES300	470	XO	74LS157	
DA13	1N4148		JPWR	Power Ja	ick		RGA	RES300	470	X1	74LS153	
DA14	1N4148		JRGBI	DB9			RGND	RES300	2K2	X2	74LS153	
DA15	1N4148		ITI	Audio Ja	ck		RGO	RES300	10K	ХЗ	74LS153	
DB	1N4148		JTO	Audio Ja	ck		RHR	RES300	10K	X4	74LS153	
DG	1N4148		JVGA	D-Sub15			RI	RES300	680	X5	74LS157	
DGB	1N4148		L	74LS373			RK0	RES300	4K7	X6	74LS157	
DGG	1N4148		М	27C128			RK1	RES300	4K7	XTAL	XTAL	14MHz
DGI	1N4148		M0	64Kx1			RK2	RES300	4K7	z	Z80A	
DGO	1N4148		M1	64Kx1			RK3	RES300	4K7			

Table 2: Bill of Materials

Revision 1.0

2.15 Netlist

```
F5.1 G7.5 JEXT.51 JEXT.50 M.10 X1.3 Z.30
AΟ
A00
        G0.4 G1.13 G4.10
A1
        JEXT.54 JEXT.53 M.9 X1.13 Z.31
        JEXT.57 JEXT.56 M.8 X2.3 Z.32
A2
AЗ
        JEXT.60 JEXT.59 M.7 X2.13 Z.33
Α4
        JEXT.63 JEXT.62 M.6 X3.3 Z.34
Α5
        JEXT.66 JEXT.65 M.5 X1.4 Z.35
        JEXT.69 JEXT.68 M.4 X1.12 Z.36
A6
        JEXT.72 JEXT.71 M.3 X2.4 Z.37
Α7
Α8
        DA8.1 JEXT.75 JEXT.74 M.25 X3.13 Z.38
        DA9.1 JEXT.78 JEXT.77 M.24 X4.3 Z.39
Α9
A10
        DA10.1 JEXT.81 JEXT.80 M.21 X4.13 Z.40
A11
        DA11.1 JEXT.84 JEXT.83 M.23 X2.12 Z.1
        DA12.1 JEXT.87 JEXT.86 M.2 X3.4 Z.2
A12
        DA13.1 JEXT.90 JEXT.89 M.26 X3.12 Z.3
A13
        DA14.1 G4.9 JEXT.93 JEXT.92 X4.4 Z.4
A14
A15
        DA15.1 G4.8 G8.9 JEXT.96 JEXT.95 Z.5
AE
        G0.3 G0.12
        JAO.2 RAO.2
AO
В
        CB.1 DB.1 JVGA.3 RB.1
CK
        F0.11 JEXT.10 JEXT.7 NO.5 TS.8
CK1
        CCK1.1 G.9 JEXT.16 JEXT.13 NO.3
CK2
        G1.5 JEXT.9 JEXT.8 N0.2 RCLK.2 Z.6
CK3
        F0.12 G1.2 G9.1 JEXT.22 JEXT.19 N0.6 X1.2 X2.2 X3.2 X4.2
CK4
        G2.12 G5.5 G9.4 JEXT.28 JEXT.25 NO.7 N1.5 X0.1
CK3D
        F0.9 G5.4 JEXT.34 JEXT.31 L.11
CY0
        N1.12 N2.5
CY1
        N2.12 N3.5
        N3.12 N4.5
CY2
        B.3 F5.3 JEXT.46 JEXT.43 L.2 M.11 M0.2 RD0.1 Z.14
DO
        B.5 F5.4 JEXT.52 JEXT.49 L.5 M.12 M1.2 RD1.1 Z.15
D1
D2
        B.7 F5.7 JEXT.58 JEXT.55 L.6 M.13 M2.2 RD2.1 Z.12
        B.9 F5.8 JEXT.64 JEXT.61 L.9 M.15 M3.2 RD3.1 Z.8
D3
        B.12 F5.13 JEXT.70 JEXT.67 L.12 M.16 M4.2 RD4.1 Z.7
D4
D5
        B.14 F5.14 JEXT.76 JEXT.73 L.15 M.17 M5.2 RD5.1 Z.9
        B.16 F5.17 JEXT.82 JEXT.79 L.16 M.18 M6.2 RD6.1 Z.10
D6
        B.18 F5.18 JEXT.88 JEXT.85 L.19 M.19 M7.2 RD7.1 Z.13
D7
DA
        G1.3 G1.4
DE
        G0.6 G0.10
        F0.3 G.13 G4.4 G7.9
DRD
DTO
        DT00.2 DT01.1 RQ3.1 RT0.2
FLSH
        G2.8 G8.12
        CG.1 DG.1 JVGA.2 RG.1
G
G0
        F3.2 X5.3
        F3.5 X5.6
G1
G2
        F3.6 X5.10
        F3.9 X5.2
G3
G4
        F3.12 X5.5
G5
        F3.15 X5.11
G6
        F3.16 X5.13 X5.14
G7
        F3.19 G2.9
        DGB.1 DGG.1 DGO.1 DGR.1 RGA.1
GA
GB
        DGB.2 X5.4 X6.6
GCK
        F1.3 F1.11 F3.11 G5.6
        DGG.2 X5.9 X6.13
GG
GI
        DGI.1 X5.12
        B.10 CB.2 CCK1.2 CD.2 CF6.2 CG.2 CHR.2 CI.2 CM0.2 CM1.2
GND
        CM2.2 CM3.2 CM4.2 CM5.2 CM6.2 CM7.2 CPR.2 CPWR.2 CR.2 CT.2
GND
        CZ.2 DK6-.2 DT00.1 DT01.2 F0.2 F0.7 F1.7 F2.7 F3.1 F3.10
GND
GND
        F4.15 F4.8 F5.10 F6.1 F6.10 G.7 G0.7 G1.7 G2.7 G3.7
GND
        G4.7 G5.7 G6.7 G7.7 G8.7 G9.7 JAO.1 JAO.A JAO.B JEXT.6
        JEXT.5 JEXT.4 JEXT.A JEXT.B JKB.16 JKB.A JKB.B JPWR.2 JRGBI.2 JRGBI.A
GND
```

Turbo Spectrum Specification

GND JRGBI.B JTI.1 JTI.A JTI.B JTO.1 JTO.A JTO.B JVGA.5 JVGA.6 JVGA.7 JVGA.8 JVGA.9 JVGA.10 JVGA.A JVGA.B L.10 M.14 M0.16 M0.1 M1.16 GND M1.1 M2.16 M2.1 M3.16 M3.1 M4.16 M4.1 M5.16 M5.1 M6.16 GND GND M6.1 M7.16 M7.1 N0.14 N0.8 N1.1 N1.10 N1.15 N1.8 N2.1 N2.15 N2.8 N3.8 N4.8 N5.2 N5.3 N5.10 RGA.2 RGND.2 SPKR.1 GND GND SPKRTI.2 SW.3 SW.A SW.B TS.7 X0.15 X0.8 X1.1 X1.15 X1.8 GND X2.1 X2.15 X2.8 X3.1 X3.10 X3.15 X3.8 X4.1 X4.10 X4.15 GND X4.8 X5.15 X5.8 X6.2 X6.8 XTAL.A Z.29 DGI.2 DGO.2 RGO.2 X6.3 GΟ DGR.2 X5.7 X6.10 GR HО N1.3 X1.5 Н1 N1.2 X1.11 G6.12 N1.6 X2.5 Н2 HЗ G6.1 N1.7 X2.11 H4 G6.5 N2.3 X3.5 G2.1 G6.2 N2.2 Н5 G5.9 G8.3 HBT. HR CHR.1 RHR.2 SW.1 TS.1 HVBL G5.8 X6.15 F1.6 JRGBI.8 JVGA.13 JVGA.14 HVS CI.1 DB.2 DG.2 DR.2 RI.1 Ι КO B.17 JKB.1 RK0.2 К1 B.15 JKB.4 RK1.2 B.13 JKB.3 RK2.2 K2 K3 B.11 JKB.6 RK3.2 K4 B.8 JKB.5 RK4.2 B.6 JKB.2 RK5.2 K5 B.4 DK6+.2 DK6-.1 RK6.2 K6 K8 DA8.2 JKB.13 DA9.2 JKB.14 К9 DA10.2 JKB.11 K10 K11 DA11.2 JKB.12 K12 DA12.2 JKB.9 DA13.2 JKB.10 K13 DA14.2 JKB.7 K14 K15 DA15.2 JKB.8 MD0 F3.3 F4.11 L.3 M0.14 MD1 F3.4 F4.12 L.4 M1.14 MD2 F3.7 F4.13 L.7 M2.14 MD3 F3.8 F4.14 L.8 M3.14 MD4 F3.13 F4.3 L.13 M4.14 MD5 F3.14 F4.4 L.14 M5.14 MD6 F3.17 F4.5 L.17 M6.14 MD7 F3.18 F4.6 L.18 M7.14 G1.12 G4.13 MRD G0.9 G4.1 MRQ MUX G.4 RD.1 VB F6.5 JRGBI.5 RB.2 RVB.2 F6.9 JRGBI.4 RG.2 RVG.2 VG VR F6.6 JRGBI.3 RR.2 RVR.2 VC JRGBI.7 RVC.2 F6.2 JRGBI.6 RI.2 RVI.2 VI RGBI RS.1 RVB.1 RVCC.2 RVG.1 RVI.1 RVR.1 T.2 PCAS CD.1 G.5 RD.2 PR TS.4 TS.5 G.11 G5.3 PVB PVC RGND.1 RVC.1 T.1 Q0 F5.2 X6.5 F5.5 X6.11 Q1 Q2 F5.6 X6.14 Q3 F5.9 R03.2 04 CAO.1 F5.12 Q5 F2.2 F5.15 Q6 F2.12 F5.16 R CR.1 DR.1 JVGA.1 RR.1 RFSH G.2 G4.2

RTI RTI.2 SPKRTI.1 F4.10 F4.9 F6.13 S0 F6.12 F6.14 S1 s2 F6.15 F6.17 S3 F6.16 F6.18 S4 F6.19 G8.13 SM F2.9 G0.2 JEXT.40 JEXT.37 SPKR CAO.2 JKB.15 RAO.1 SPKR.2 JTI.2 RK6.1 RTI.1 ΤI ТΟ JT0.2 RT0.1 V0 G2.4 N2.6 N2.10 X0.3 V1 G2.5 N2.7 N2.9 X0.6 G1.10 G2.13 N3.3 V2V3 G9.9 N3.2 X1.6 V4 G9.10 N3.6 X1.10 G9.12 N3.7 X2.6 V5V6 G3.4 G3.9 N4.3 X0.10 X0.2 V7 G3.10 N4.2 X0.13 X0.5 V8 G3.5 G5.2 N4.6 N5.14 V9 N5.1 N5.12 V12 G2.10 N5.11 VBB JEXT.94 JEXT.91 G5.10 G8.6 VBL VCC B.20 CF6.1 CM0.1 CM1.1 CM2.1 CM3.1 CM4.1 CM5.1 CM6.1 CM7.1 VCC CPWR.1 CT.1 CZ.1 DK6+.1 F0.1 F0.10 F0.13 F0.14 F1.1 F1.4 VCC F1.10 F1.13 F1.14 F2.14 F3.20 F4.16 F5.20 F6.20 G.14 G0.14 G1.14 G2.14 G3.14 G4.14 G5.14 G6.14 G7.14 G8.2 G8.5 G8.14 VCC VCC G9.14 JEXT.3 JEXT.2 JEXT.1 JKB.17 JKB.18 JPWR.1 JRGBI.1 L.20 M.27 VCC M.28 M.1 MO.8 M1.8 M2.8 M3.8 M4.8 M5.8 M6.8 M7.8 NO.4 NO.11 NO.16 N1.4 N1.9 N1.16 N2.4 N2.16 N3.4 N3.11 VCC VCC N3.16 N4.4 N4.11 N4.16 N5.5 RBR.1 RCLK.1 RD0.2 RD1.2 RD2.2 VCC RD3.2 RD4.2 RD5.2 RD6.2 RD7.2 RG0.1 RHR.1 RK0.1 RK1.1 RK2.1 VCC RK3.1 RK4.1 RK5.1 RNMI.2 RPR.2 RVCC.1 T.3 TS.14 X0.11 X0.14 VCC X0.16 X1.16 X2.16 X3.16 X4.6 X4.16 X5.16 X6.16 Z.11 VCLR G3.6 N1.14 N2.14 N3.14 N4.14 VT0 G1.9 G2.6 VT2 G3.8 G5.1 G9.13 X0.4 X3.11 VX0 VX1 X0.7 X4.5 VX2 X0.9 X2.10 VX3 X0.12 X3.6 VXX G2.11 X4.11 Х0 RX0.1 TS.13 XTAL.1 Х1 RX0.2 RX1.1 TS.11 TS.12 RX1.2 TS.9 TS.10 XTAL.2 Х2 G8.8 X4.12 X15 XA0 M0.5 M1.5 M2.5 M3.5 M4.5 M5.5 M6.5 M7.5 X1.7 M0.7 M1.7 M2.7 M3.7 M4.7 M5.7 M6.7 M7.7 X1.9 XA1 M0.6 M1.6 M2.6 M3.6 M4.6 M5.6 M6.6 M7.6 X2.7 XA2 M0.12 M1.12 M2.12 M3.12 M4.12 M5.12 M6.12 M7.12 X2.9 XA3 XA4 M0.11 M1.11 M2.11 M3.11 M4.11 M5.11 M6.11 M7.11 X3.7 M0.10 M1.10 M2.10 M3.10 M4.10 M5.10 M6.10 M7.10 X3.9 XA5 M0.13 M1.13 M2.13 M3.13 M4.13 M5.13 M6.13 M7.13 X4.7 XA6 XA7 M0.9 M1.9 M2.9 M3.9 M4.9 M5.9 M6.9 M7.9 X4.9 XB F6.4 X6.7 F6.8 X6.12 XG XI F6.3 X6.4 XR F6.7 X6.9 ~BUSRQ RBR.2 Z.25 M0.15 M1.15 M2.15 M3.15 M4.15 M5.15 M6.15 M7.15 RCAS.1 ~CAS ~CE F2.5 G0.13 M.20 ~CK1 F4.2 F6.11 G.8 ~CK3D F0.4 F0.8 G7.10 G9.2 ~DO G0.5 G0.11 ~DRD G.12 L.1 ~DRQ G0.8 G1.1 G4.6

Turbo Spectrum Specification

~HBL	G6.3 G6.4 G6.9 G6.13 G8.1
~HLD	G6.6 N1.11 N2.11
~HR	G3.13 TS.2
~HVB	F1.9 X6.1
~HVS	F1.5 JRGBI.9 RS.2
~IE	B.1 B.19 G7.6
\sim INT	G5.11 JEXT.18 JEXT.17 JEXT.15 JEXT.14 Z.16
~IORD	F2.3 F2.11 G7.3 G7.4 JEXT.42 JEXT.41
~IORQ	G7.2 G7.12 JEXT.45 JEXT.44 Z.20
~IOWR	F5.11 G7.11 JEXT.36 JEXT.35
~LD	F4.1 G9.6
~M1	JEXT.30 JEXT.29 Z.27
~MREQ	G4.3 G4.11 JEXT.48 JEXT.47 Z.19
~MUX	G.3 G9.5 RMUX.1 X1.14 X2.14 X3.14 X4.14
~NMI	JEXT.21 JEXT.20 RNMI.1 Z.17
~OE	G1.11 M.22
~PCAS	G.6 RCAS.2
~PHS	G3.1 G6.11
~PHVB	F1.12 G2.3
~PHVS	F1.2 G3.3
~PR	G3.12 TS.6
~PRAS	G1.6 RMUX.2 RRAS.2
~PRST	CPR.1 RPR.1 TS.3
~PS	G8.11 X5.1
~PVB	G.10 G2.2
~PVS	G3.2 G6.10 G8.4 G9.8
$\sim PWE$	G7.8 RWE.2
~RAS	M0.4 M1.4 M2.4 M3.4 M4.4 M5.4 M6.4 M7.4 RRAS.1
~RD	G0.1 G4.5 G4.12 G7.1 JEXT.39 JEXT.38 Z.21
~RFSH	G.1 Z.28
~RST	F2.1 F2.13 G3.11 JEXT.12 JEXT.11 Z.26
~SM	F2.4 F2.8 F2.10 G8.10
~VT1	G1.8 G5.13
~WAIT	F0.5 JEXT.27 JEXT.26 JEXT.24 JEXT.23 Z.24
$\sim WE$	M0.3 M1.3 M2.3 M3.3 M4.3 M5.3 M6.3 M7.3 RWE.1
~WR	G7.13 JEXT.33 JEXT.32 Z.22
~XBL	G5.12 G6.8

2.16 Schematics

Revision 1.0

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	(1) (1) (1) (1) (1) (1) (1) (1)	2 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	33 33 35 33 33 55 33 800 50 33 800 50 33 800 50 33 800 50 33 800 40 33 800 40 33 800 40 33 800 40 33 800 40 33 800 40 33 800 40 33 800 40 33 800 40 34 800 40 35 800 40	Rev1.0 Turbo S
		C2 C2
		1 1 0
XTAL XTAL		V 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2



2.17 Layout

Figure 30 through Figure 33 in this section are the rebuilt Turbo Spectrum PCB at 1:1 scale. Same design rules have been used as in the original 2-layer PCB, with 0.8 mm IC pins holes and 1.5 mm pads, with a single trace allowed in between IC pins, and minimum trace width and clearance of 0.3 mm. The layout is dense, and it required mostly manual routing, same as in the old days. DipTrace Schematic and PCB Design Software (https://diptrace.com) was used, which provided a discounted price for this non-profit project.



Figure 30: PCB Components



Figure 31: PCB All Layer



Figure 32: PCB Top Layer



Figure 33: PCB Bottom Layer

3 Boot Code

After reset, Turbo Spectrum boot code starts executing in EEPROM Mode. The 16Kx8 EEPROM contains the Turbo Spectrum logo generation code and a compacted Sinclair ZX Spectrum ROM. Figure 34 shows the TS boot screen, where every pixel is shown. The thin lines are Spectrum 8x8 character demarcation lines; they do not appear on the screen. The bright black at the left of the color test pattern does not appear on the screen because of the logic that forces bright black to be displayed as black.



Figure 34: Turbo Spectrum Logo

Code 1 on page 60 is the TS boot source code with comments describing how it works. After some initializations are done, including setting Stack Pointer to 0e800h, clearing the screen, and setting the color bar at the bottom of the screen, 7b4h bytes are copied from EEPROM addresses 0004ch to 007ffh to DRAM addresses 0dfffh to 0e7b2h, then a jump is executed to 0e004h, where a transition is made to the 64K DRAM Mode.

The Turbo Spectrum logo is stored compressed to reduce the code and data size. The total size of code and data for logo generation and rotation is 1231 bytes. The original Sinclair ZX Spectrum ROM had 1170 unused bytes, from 0386eh to 03cffh, which are not sufficient for the logo code and data. To make room in the 16KB EEPROM, the characters in the Sinclair ZX Spectrum ROM are stored using a light compression.

The TS logo is generated from the 9 special characters stored at C_Base (0e2edh) and their rotations by a multiple of 90 degrees (see Figure 35), using the data structure that starts at C_struct (0e335h), which consists of 9 sections, one for each special character. There are 61 unused bytes that start at Spare, from 0e491h to 0e4cdh, that are set to 0xff.



Figure 35: Turbo Spectrum Logo Special Characters

The TURBO part of the logo has 8 Spectrum characters rows, 8*8 = 64 screen lines, and is generated in T_buffer, addresses 09900h to 0b0ffh; the SPECTRUM part has 5 Spectrum characters rows, 5*8 = 40 screen lines, and is generated in S_buffer, addresses 0b100h to 0bfffh. Both the TURBO and SPECTRUM part use 96 bytes lines, 3 times longer than the 32 characters on the Spectrum screen. Same line interleaving is used as for the Spectrum bitmap, so going from the current character line address to the next, the high address is incremented by 3 instead of 1 for TURBO, and for SPECTRUM, the address is incremented by 5*96 = 480 = 1e0h. Figure 36 shows the memory organization for TS logo generation.

09900h:	
	T_buffer: TURBO logo, 8 * 8 * 3*32 = 6 KBytes
0b100h:	
	S_buffer: SPECTRUM logo, 5 * 8 * 3*32 = 3.75 KBytes
0c000h:	
	Video Bitmap, 6 KBytes
0d800h:	Video Attributes, 768 Bytes
0db00h:	Data section, 1279 Bytes (only first 18 bytes are used)
Odfffh:	Boot code and hard-coded tables, 1231 Bytes
0e4ceh:	Stack, 818 Bytes (only last 6 bytes are used)
0e800h:	

Figure 36: Bitmap for Turbo Spectrum Generation

The code from 0e006h to 0e07eh generates the TS logo in the left third of the 96 characters rows, the code from 0e07fh to 0e092h copies it to the right third, leaving the middle third black, and the code from 0e093h to 0e0c2h copies T_buffer to addresses 03000h to 047ffh, and generates 4 shifted versions of the TURBO and 8 of SPECTRUM; Figure 37 shows the memory map used. The shifted versions are generated by calling the Rotate subroutine at addresses 0e0d0h to 0e0ech, once for SPECTRUM and twice for TURBO.
0000h:	
	TURBO 2: TURBO 0 rotated left 4 pixels, 6 KBytes
01800h:	TURBO 1: TURBO 0 rotated left 2 pixels, 6 KBytes
03000h:	TURBO 0: main logo, 6 KBytes
04800h:	SPECTRUM 7: SPECTRUM 0 rotated left 7 pixels, 3.75 KBytes
05700h:	SPECTRUM 6: SPECTRUM 0 rotated left 6 pixels, 3.75 KBytes
06600h:	SPECTRUM 5: SPECTRUM 0 rotated left 5 pixels, 3.75 KBytes
07500h:	SPECTRUM 4: SPECTRUM 0 rotated left 4 pixels, 3.75 KBytes
08400h:	SPECTRUM 3: SPECTRUM 0 rotated left 3 pixels, 3.75 KBytes
09300h:	SPECTRUM 2: SPECTRUM 0 rotated left 2 pixels, 3.75 KBytes
0a200h:	SPECTRUM 1: SPECTRUM 0 rotated left 1 pixel, 3.75 KBytes
0b100h:	SPECTRUM 0: main logo, 3.75 KBytes
0c000h:	Video Bitmap, 6 KBytes
0d800h:	Video Attributes. 768 Bytes
0db00h:	Data section, 1279 Bytes (only first 18 bytes are used)
Odfffh:	Boot code and hard-coded tables, 1231 Bytes
0e4ceh: 0e800h:	Stack, 818 Bytes (only last 6 bytes are used)
	TURBO 3: TURBO 0 rotated left 6 pixels, 6 KBytes

Figure 37: Memory Map for Logo Generation

Two nested loops are used to generate the TS logo. The outer loop goes through the 9 special characters and the inner loop through the 4 rotations, except for the first character. Each of the 9 C_struct data structure sections, has 4 subsections, except the first one, each subsection starting with a 16-bit base address of the first character instance, followed by the number of instances n, and a list of n-1 increments; the increments are ordered in ascending order, first the TURBO increments, then the SPECTRUM increments.

The special character is first copied at the beginning of the data section, at address C_buffer0 (0db00h). Each of the inner loops goes through 2 stages. In the first stage, two more nested loops are used, the outer loop sequencing through all increments, and the inner loop sequencing through the character lines. In the second stage, the character at C_buffer0 is copied to C_buffer1 (0db08h), then the character at C_buffer1 is rotated by 90 degrees in trigonometric order and is written to C_buffer0.

In the inner loop of the second stage, each byte from C_buffer0 is XOR-ed with the corresponding byte of the character in T_buffer or S_buffer, determined by the increment; this feature (XOR instead of copy) is used to generate more complex characters by superposition of multiple special characters. The line-to-line address increment is 300h for TURBO and 1e0h for SPECTRUM, but there is no explicit demarcation between lines belonging to the TURBO and SPECTRUM sections. To determine the address of the next line, the high address is incremented first by 1, and a comparison is made at address 0e02bh; if the high address is lower than 0b2h, this is a TURBO special character and the high address is incremented two more times; otherwise, this is a SPECTRUM special character and 0e0h is added to the address.

3.1 Interrupt Handler

The rotation of the logo is done on the long 96 characters rows; TURBO is rotated 2 pixels per frame interrupt and SPECTRUM 1 pixel, so TURBO moves 2x faster. With the 3x longer lines, both TURBO and SPECTRUM completely disappear on the left edge before they reappear on the right edge.

The rotation is done on the frame interrupt to avoid tearing. TS uses Mode 2 Interrupt but does not include a CTC or other circuit that can drive the Z80 data bus during the interrupt. The Z80 documentation claims that in Mode 2, the interrupting device must supply the lower eight bits of the pointer where the address of the interrupt service routine is located, and the least-significant bit must be 0. That's not true, the least-significant bit does not need to be 0.

Although it is desirable for 16-bit addresses to be aligned, Z80 fetches the address of the interrupt service routine in 2 cycles, first the low byte at the address provided by the I register concatenated with the byte read during the interrupt, then it uses the internal 16-bit addre to compute the address of the high byte. TS uses this undocumented feature and does not drive anything during the interrupt and lets the pull-up resistors to provide the <code>0ffh</code> value.

The code from $0 \in 0 c 3h$ to $0 \in 0 c fh$ initializes the rotation counters (bit counter B with 8 and character counter C with 64 modulo 256), loads 0 d fh to the I register and sets Z80 Interrupt Mode 2, then interrupts are enabled, and the halt instruction is executed, from where it can exit only on the interrupt. After the interrupt is serviced the boot code keeps looping until a key is pressed.

The interrupt handler is located at address 0e13ah, which is stored at 0dfffh, from where Z80 reads it on the interrupt, then starts executing it. The 0e13ah to 0e158h section implements the SPECTRUM rotation, the 0e159h to 0e165h section tests if a key was pressed (jumps at Key, 0e19ah, in case a key was pressed), and the 0e166h to 0e199h section implements the TURBO rotation.

The rotation is done by copying from the SPECTRUM or TURBO area selected by the value in the B register a 32 byte wide section indexed by the value in the C register to the Video Bitmap area. The copying is implemented with the Copy subroutine at addresses 0e0edh to 0e139h, which copies one line at a time using 16 (pop, push) instruction pairs.

3.2 Motivation for the implementation choices

The reason the special Copy subroutine is used instead of the ldir or lddr instructions and most of the 64K DRAM is used for the 8 shifted versions of SPECTRUM and 4 of TURBO instead of doing the shift on the frame interrupt, is execution speed. The number of bytes that need to be shifted per frame interrupt are (8*8+5*8)*32 = 104*32 = 3328 bytes. An ldir or lddr instruction takes 21 cycles per byte to execute and does 2 memory reads which adds in average 1 WAIT state for DRAM read access. Z80 runs at 3.5 MHz, so the time it takes for copy with the ldir or lddr instruction is 3328*22 / 3.5 = 20.919 ms, more than the 20.48 ms frame time.

The (pop, push) instruction pair takes 11 + 12 cycles per 2 bytes to execute and does 4 memory reads which adds in average 2 WAIT states for DRAM read access. The time it takes for copy with the (pop, push) instruction pair is $3328/2 \times 25/3.5 = 11.886$ ms, almost 2x faster. There are more instructions in the Copy subroutine to be executed in the interrupt handler, which does not leave sufficient time for the shift to be implemented on the frame interrupt.

3.3 Spectrum Mode

When a key is pressed, the interrupt handler jumps to Key. The 0e19ah to 0e1a9h section of the code checks if the T or S keys have been pressed; if a different key was pressed, the 0e1aah to 0e1f2h section of the code does the Spectrum code unpacking. It transitions Turbo Spectrum to EEPROM Mode, copies the Spectrum code from EEPROM addresses 00558h to 03dc5h to DRAM addresses 08000h to 0b86dh, then fills DRAM addresses 0b86eh to 0bcffh with 0ffh, then adds the blank character (fills 0bd00h to 0bd07h with 000h), and then unpacks the remaining 95 characters.

Most Spectrum characters have the first and last line 000h, so these 2 bytes are not stored to the TS boot EEPROM, saving 190 bytes. There are 12 exceptions, the first being at address 0bd27h, for which the Bytes table is provided with the 12 non-zero bytes and the relative address increment for the last 11.

After the unpacking is done, the code jumps to Done, 0e2dfh, that initializes the Stack Pointer to 00000h, does an out instruction that sets black border and the O5 and O6 bits to 1, then pushes 0fedbh, to the stack, which ends up as 0dbfeh at address 0fffeh, which is the in a, (0feh) instruction, then jumps at 0fffeh from where the in a, (0feh) instruction is executed that sets TS in Spectrum Mode, then continues execution from address 00000h.

3.4 T and S Modes

If the T key is pressed while the boot code is executing, the execution jumps to 0e20ah, and if the S key is pressed, the execution jumps to 0e20bh. It's not clear what the code from 0e20ah to 0e2deh does, it seems it wants to load something from the tape. I believe I wanted to add some extra features that I did not manage to implement before I left Romania. While in the T or S Modes, if the Space key is pressed, it returns where it left before the T or S key were pressed.

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T_buffe:	org 09900h r:					
_	org 0b100b					
S_buffe:	r:					
	org 0c000h					
	org 0db00h					
_buffe:	r0:					
_buffe:	org 0db08h r1:					
	org 0db16h					
HL_save	:					
	org 0dffh					
	defw IntHand	ler	;dfff 3a	a el	;	
Le001h:						
	inc d	;e001	14	;b	for TURBO only	
	jr le035h	;e002	18 31	;e		
; enter	64K DRAM Mode an	nd gener	ate TURBO S	SPEC	TRUM logo with 060h byte lines	
	in a, (Uieh)	;euu4	ap ie 21 35 63	;	:ut=1; A=in(U45ieh), rows KAi,KAd,KAc,KA	AD,KAS
	ld bc,00109h	;e009	01 09 01	;	1 rotation and 9 special characters	
	exx	;e00c	d9	;		
- 01 01	ld hl,C_base	;e00d	21 ed e2	;	load HL with Special Character Base Add	ress
euiUh:	ld de,C buffer0	;e010	11 00 db	;b	copy special character to (C buffer0) <-	<,
	ld bc,00008h	;e013	01 08 00	;		^
	ldir	;e016	ed b0	;e		1
- 01 01	exx	;e018	d9	;		^
eul9h:	nuch ha	.010	c5	;	RATE BC (((()	
	ld e.(hl)	;e01a	5e	, .h	load DE with char start address	
	inc hl	;e01b	23	;	Toda DD With that that dailedb	~ ^
	ld d, (hl)	;e01c	56	;		
	inc hl	;e01d	23	;e		~ ~
01 -	ld c,(hl)	;e01e	4e	;	load C with number of char increments	
e01fh:	puch hl	• 001 f	0.5	;		
	ld hl C buffer0	;eU11 •e020	es 21 00 db	<i>;</i>	load HL with C buffer0	
	ld b,008h	;e023	06 08	;	8 bytes per character	
e025h:				;	-	~ ^ ^
	ld a,(de)	;e025	1a	;b	xor char at (DE) with (C_buffer0) <,	
	xor (hl)	;e026	ae 10	;	· · ·	· · ·
	ing l	;eU27	12	;		
	inc d	;eU28 •e029	∠C 14	;		
	ld a.d	;e02a	 7a	,e :h	for TURBO, lines are 0300h apart	
	cp 0b2h	;e02b	fe b2	;	and D is incremented 3 times	
	jr c,\$-44	;e02d	38 d2	;e	jump if TURBO	~ ^ ^
	ld a,e	;e02f	7b	;b	for SPECTRUM, lines are 01e0h apart	
	add a,0e0h	;e030	c6 e0	;	and D is incremented once or twice ^ /	· · ·
	Id e,a	;e032	51 30 01	;		
e035h:	Jr nc,reuson	;eu33	30 UI	;e ;		
	inc d	;e035	14	;		~ ~ ~
e036h:	A444 A 100 FT		10 1	;		
	djnz 1e025h ld a d	;eU36	10 ed	;	Close byte loop>>>> -'	
	⊥u a,u sub 018b	;e030	/a d6 18	a; ! !	and it takes 8 * 0300b = 01800b butes /	
	cp 09ch	;e03b	fe 9c	;	and it takes o osoon – otooon bytes	
	jr c,le041h	;e03d	38 02	;e	,	· · · ·
	add a,009h	;e03f	c6 09	;	SPECTRUM takes 8*01e0h = 00f00h bytes	
e041h:	1.4.4.5	;	E 7			
	⊥a d,a pop bl	;eU41	ວ/ ຄ1	;	restore DE with char start address	
	inc hl	,e043	23	;	TESCOLE UN	
	ld a, (hl)	;e044	7e	;	load A with next char increment	~ ~ ~
	add a,e	;e045	83	;b	next char start address	
	ld e,a	;e046	5f	;e	<i>,</i>	~ ^ ^
	jr nc,le052h	;e047	30 09	;	jump if E does not wrap around	
	inc d	;e049	14	;	need to increment D	· · ·
	ra a,a	;eu4a .e04b	/a fe %c	;	,	
	jr nz.le052h	;e04d	20 03	;	jump if TURBO	
	add a,015h	;e04f	c6 15	;b	transition to SPECTRUM	· · · ·
	ld d,a	;e051	57	;e		
e052h:				;	, ,	· · ·
	dec c	;e052	0d	;		

	1-01 <i>6</i> h	052	20				
	jr nz,leulin	; e053	20	Ca		;	close char loop>>>>>>
	ld bl C buffor0	,0056	21	0.0	db	, . h	Save ni
	ld do C bufforl	,0050	21	00	db	, 0	then retate left char (C buffer()
	ld be 00008b	,0050	01	00	0.0		
	ldir	,e05t	ad	b0	00	,	HI holds C hufferl
	ld e 000b	,e051	1e	00			DE holds C buffer0
	ld c.008h	;e063	00	08			8 bytes per character
1e065b.	10 0,00011	,0000	00	00		΄.	
1000011.	ld b 008b	·e065	06	0.8		΄.	8 bits per byte < < <-
	ld l.b	;e067	68	00			
1e068h•	10 1/0	,0001	00				
100000	rr (hl)	:e068	cb	1e		;	shift bit 0 of (HL) to CY <. ^
	ex de.hl	;e06a	eb	10		;	
	rl (hl)	;e06b	cb	16		;	shift CY to bit 0 of (DE) ^ ^ ^
	ex de.hl	;e06d	eb	± 0		;	
	inc l	;e06e	20				
	dinz le068h	;e06f	10	f7			close bit loop>>'
	inc e	;e071	1c	1		;	
	dec c	;e072	0d			;	
	ir nz,le065h	;e073	20	f0		;	close byte loop>>>
	pop hl	;e075	e1			;	restore HL
	pd gog	;e076	c1			;	restore BC
	dinz le019h	;e077	10	а0		;	close special char rotation loop>>'
	ld b.004h	:e079	06	0.4		;	d character rotations
	dec c	;e07b	0d	• -		;	
	exx	;e07c	d9			;	
	ir nz,le010h	;e07d	20	91		;	close special char loop>>>>'
	j=,	,				,	
: copy	left 3rd to the	right th	nird				
,	ld de.T buffer	:e07f	11	0.0	99	;	load DE with T buffer
	ld b.068h	;e082	06	68	55	;	(8 TURBO + 5 SPECTRUM) * 8 lines/char = 104 lines
le084h:	,	,				,	
	push bc	;e084	c5			;	save BC < < <.
	ld h.d	;e085	62			;b	copy first 32 bytes
	ld l.e	:e086	6b			: 1	in the 96 byte line ^
	ld bc,00040h	;e087	01	40	0.0	:	to the last 32
	add hl,bc	;e08a	09			;	^
	ex de, hl	;e08b	eb			;	
	ld c,020h	;e08c	0e	20		;	л А
	ldir	;e08e	ed	bÛ		;e	
	od gog	;e090	c1			;	restore BC ^
	1		1.0	C 1		<u>.</u>	close line loop> -'
	anz leusan	; eu 🤊 1	T0	Τ⊥			
	ajnz lev84n	;0091	10	Ιl		,	
; gener	ajnz ieusan ate 4 shifted ve	rsions c	IU of TU	II) and	, 8 (of SPECTRUM
; gener	ajnz 1e084n ate 4 shifted ve: ld hl.T buffer	rsions c :e093	10 of TU 21	II JRBC) and 99	, 8 c ;b	f SPECTRUM copy TURBO from 09900h to 03000h
; gener	ajnz 10084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h	;e091 rsions c ;e093 ;e096	10 of Tu 21 11	II JRBC 00 00) and 99 30	, 8 d ;b ;	of SPECTRUM copy TURBO from 09900h to 03000h
; gener	ajnz 10084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h	;e091 rsions c ;e093 ;e096 ;e099	10 of Tu 21 11 01	II JRBC 00 00 00) and 99 30 18	8 0 ;b ;	of SPECTRUM copy TURBO from 09900h to 03000h
; gener	ajnz 10084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ldir	;e091 rsions c ;e093 ;e096 ;e099 ;e09c	10 of TU 21 11 01 ed	II JRB(00 00 00 00 b0) and 99 30 18	8 0 ;b ; ;	of SPECTRUM copy TURBO from 09900h to 03000h
; gener	ajnz 10084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ldir ld de.0b0ffh	;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e09e	10 21 11 01 ed 11	II JRB(00 00 00 b0 ff) and 99 30 18 b0	8 0 ;b ; ; ;e ;b	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM
; gener	ajnz 10084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ld ir ld de,0b0ffh ld bl.00f00b	;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e09e ;e0al	10 21 11 01 ed 11 21	II JRBC 00 00 00 b0 ff 00) and 99 30 18 b0 0f	8 (;b ; ; ;e ;b ;	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit. 7 times
; gener	ajnz 10084n ate 4 shifted ve: 1d h1,T_buffer 1d de,03000h 1d bc,01800h 1dir 1d de,0b0ffh 1d h1,00f00h 1d b.023h	;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e09e ;e0a1 ;e0a4	10 21 11 01 ed 11 21 06	II JRB(00 00 00 b0 ff 00 2.3) and 99 30 18 b0 0f	8 0 ;b ; ; ;e ;b ;	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows
; gener	ajnz 1e084n ate 4 shifted ve. 1d hl,T_buffer 1d de,03000h 1d bc,01800h 1dir 1d de,0b0ffh 1d hl,00f00h 1d b,023h call Botate	;e091 rsions c ;e093 ;e096 ;e099 ;e090 ;e09e ;e0a1 ;e0a4 ;e0a6	10 21 11 01 ed 11 21 06 cd	II JRB(00 00 00 b0 ff 00 23 d0) and 99 30 18 b0 0f e0	8 0 ;b ; ; ;e ;b ; ;e	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows
; gener	ajnz 10084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ld de,0b0ffh ld hl,00f00h ld b,023h call Rotate ld de,02fffh	;e091 rsions c ;e093 ;e096 ;e099 ;e099 ;e09e ;e0a1 ;e0a4 ;e0a6 ;e0a9	10 21 11 01 ed 11 21 06 cd 11	II JRBC 00 00 00 b0 ff 00 23 d0 ff) and 99 30 18 b0 0f 2f	8 0 ;b ; ; ;b ; ;b ; ;e ;	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows
; gener	ajnz 10084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ld ir ld de,0b0ffh ld hl,00f00h ld b,023h call Rotate ld de,02fffh ld c,003h	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e09e ;e0a1 ;e0a6 ;e0a9 ;e0ac</pre>	10 21 11 01 ed 11 21 06 cd 11 0e	II JRBC 00 00 b0 ff 00 23 d0 ff 03) and 99 30 18 b0 0f 2f	8 0 ; b ; ; e ; b ; ; e ; f ; e ; ;	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times
; gener	ajnz 10084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ld ir ld de,0b0ffh ld hl,00f00h ld b,023h call Rotate ld de,02fffh ld c,003h	;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e09c ;e0a1 ;e0a4 ;e0a4 ;e0a6 ;e0a9 ;e0ac	10 21 11 01 ed 11 21 06 cd 11 0e	II JRBC 00 00 b0 ff 00 23 d0 ff 03) and 99 30 18 b0 0f e0 2f	8 0 ; b ; ; ; e ; ; ; e ; ;	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times
; gener le0aeh:	ajnz le084n ate 4 shifted ve: ld hl,T buffer ld de,03000h ld bc,01800h ld de,0b0ffh ld hl,00f00h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e09e ;e0a1 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0ae</pre>	10 of TU 21 11 01 ed 11 06 cd 11 0e 21	II JRBC 00 00 b0 ff 00 23 d0 ff 03 00) and 99 30 18 b0 0f 2f 18	8 0 ; b ; ; e ; b ; ; e ; ; ; b	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <,
; gener le0aeh:	ajnz 1e084n ate 4 shifted ve: 1d hl,T buffer 1d de,03000h 1d bc,01800h 1d tr 1d de,0b0ffh 1d hl,00f00h 1d b,023h call Rotate 1d de,02fffh 1d c,003h 1d hl,01800h 1d b,008h	;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e004 ;e0a4 ;e0a6 ;e0a6 ;e0a2 ;e0ac ;e0ae	10 of TU 21 11 01 ed 11 06 cd 11 0e 21 06 21 06	II JRBC 00 00 00 b0 ff 00 23 d0 ff 03 00 08) and 99 30 18 b0 0f e0 2f 18	, 8;b ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows
; gener le0aeh:	ajnz 10084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ld hl,00f00h ld b,023h call Rotate ld de,02ffh ld c,003h ld hl,01800h ld b,008h call Rotate	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09e ;e0a1 ;e0a6 ;e0a9 ;e0ac ;e0ae ;e0ae ;e0b1 ;e0b3</pre>	10 of TU 21 11 01 ed 11 21 06 cd 11 0e 21 06 cd 21 cd 21 06 cd 21	II JRBC 00 00 b0 ff 00 23 d0 ff 03 00 08 d0) and 99 30 18 b0 0f e0 2f 18 e0	, 8;b ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows
; gener le0aeh:	ajnz 10084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ld de,0b0ffh ld hl,00f00h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e099 ;e09c ;e09e ;e0a1 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0ae ;e0b1 ;e0b3 ;e0b6</pre>	10 21 11 01 ed 11 21 06 cd 11 0e 21 06 cd 19	II JRBC 00 00 b0 ff 00 23 d0 ff 03 00 08 d0) and 99 30 18 b0 0f e0 2f 18 e0	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>protection to the top of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows</pre>
; gener	ajnz le084n ate 4 shifted ve: ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,00f0h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e09e ;e0a1 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0b1 ;e0b3 ;e0b6 ;e0b7</pre>	10 21 11 01 ed 11 21 06 cd 10 06 cd 19 eb	II JRBC 00 00 b0 ff 00 23 d0 ff 03 03 00 08 d0) and 99 30 18 b0 0f e0 2f 18 e0	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows
; gener le0aeh:	ajnz le084n ate 4 shifted ve: ld hl,T buffer ld de,03000h ld bc,01800h ld de,0b0ffh ld hl,00f00h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,00000h	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e004 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0ae ;e0b1 ;e0b3 ;e0b6 ;e0b7 ;e0b8</pre>	10 21 11 01 ed 11 21 01 01 01 01 01 01 02 06 cd 11 11 11 11 11 11 11 11 11 1	II JRBC 00 00 00 b0 ff 00 23 d0 ff 03 00 08 d0 08 00) and 99 30 18 b0 0f e0 2f 18 e0 00	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>bf SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows ^ rotate left TURBO by 1 bit < in place ^</pre>
; gener le0aeh:	ajnz 10084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,0000h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0000h ld b,008h	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09e ;e0a1 ;e0a6 ;e0a6 ;e0a9 ;e0ac ;e0ae ;e0b1 ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0b8</pre>	10 pf TU 21 11 11 01 ed 11 06 cd 11 06 cd 11 06 cd 19 eb 21 06 cd 10 06 cd 11 06 06 06 06 06 06 06 06 06 06	II JRBC 00 00 00 b0 ff 00 23 d0 ff 03 00 08 d0 08 00 08) and 99 30 18 b0 0f 2f 18 e0 00	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows ^ rotate left TURBO by 1 bit ^ in place ^ 8 character rows 1
; gener	ajnz 10084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ld hc,01800h ld hl,00f00h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,h1 ld hl,0000h ld b,008h call Rotate	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e099 ;e09e ;e0a1 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0ae ;e0b1 ;e0b3 ;e0b6 ;e0bb ;e0bb</pre>	10 pf TU 21 11 01 ed 11 21 06 cd 11 06 cd 19 eb 21 06 cd 10 06 cd 11 06 cd cd 11 06 cd cd 10 06 cd 10 06 cd 10 cd cd 10 cd	II JRBC 00 00 00 b0 ff 00 23 d0 ff 03 00 08 d0 08 d0) and 99 30 18 b0 0f 2f 18 e0 00 e0	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>bf SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows ^ rotate left TURBO by 1 bit ^ in place ^ 8 character rows ^ </pre>
; gener	ajn2 le084n ate 4 shifted ve: ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,00f0h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0000h ld b,008h call Rotate dec c	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e09e ;e0a1 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0b1 ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0bd ;e0bd</pre>	10 f TU 21 11 01 ed 11 21 06 cd 11 06 cd 11 06 cd 19 eb 21 06 cd 19 of cd 06 cd 06 cd 06 cd 06 cd	II JRBC 00 00 00 b0 ff 00 23 d0 ff 03 00 08 d0 08 d0 08 d0) and 99 30 18 b0 0f 2f 18 e0 00 e0	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows rotate left TURBO by 1 bit in place
; gener	ajnz le084n ate 4 shifted ve: ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,00f0h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,h1 ld h,0000h ld b,008h call Rotate dec c jr nz,le0aeh	<pre>;e091 rsions c ;e093 ;e096 ;e096 ;e099 ;e004 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0b1 ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0bb ;e0bb ;e0bb</pre>	10 of TU 21 01 ed 11 11 21 01 ed 11 21 01 06 cd 19 eb 21 06 cd 20 21 06 21 06 21 01 06 21 01 06 21 01 01 01 01 01 01 01 01 01 0	II JRBC 00 00 00 b0 ff 00 23 d0 ff 03 00 08 d0 08 d0 08 d0 eb) and 99 30 18 b0 0f e0 2f 18 e0 00 e0	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows rotate left TURBO by 1 bit < in place 8 character rows close rotate TURBO loop>'</pre>
; gener	ajnz le084n ate 4 shifted ve: ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,00f00h ld b,023h call Rotate ld de,02ffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0000h ld b,008h call Rotate dec c jr nz,le0aeh	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e004 ;e0a4 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0ae ;e0b1 ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0bd ;e0c0 ;e0c1</pre>	10 f TU 21 11 01 ed 11 21 01 ed 11 21 06 cd 11 0e 21 06 cd 19 eb 21 06 cd 20	II JRBC 00 00 00 b0 ff 00 ff 03 d0 ff 03 d0 08 d0 08 d0 eb) and 99 30 18 b0 0f e0 2f 18 e0 00 e0	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows rotate left TURBO by 1 bit ^ in place 8 character rows
; gener leOaeh: ; set i	ajnz 10084n ate 4 shifted ve: 1d hl,T_buffer 1d de,03000h 1d bc,01800h 1d de,0b0ffh 1d hl,00f00h 1d b,023h call Rotate 1d de,02fffh 1d c,003h 1d hl,01800h 1d b,008h call Rotate add hl,de ex de,hl 1d hl,0000h 1d b,008h call Rotate dec c jr nz,1e0aeh nterrupt mode 2,0	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09e ;e0a1 ;e0a6 ;e0a6 ;e0a9 ;e0ac ;e0b1 ;e0b3 ;e0b6 ;e0b8 ;e0bb ;e0bb ;e0bb ;e0bb ;e0bb ;e0bb ;e0bb </pre>	10 of TU 21 11 01 ed 11 12 12 12 06 cd 11 06 cd 11 06 cd 11 06 cd 11 06 cd 21 06 cd 21 06 cd 21 06 cd 21 21 21 06 cd 21 21 21 06 cd 21 21 21 21 21 06 cd 21 21 21 21 06 cd 21 21 21 21 21 21 21 21 21 21	II JRBC 00 00 00 b0 ff 00 23 d0 ff 03 00 08 d0 08 d0 08 d0 08 d0) and 99 30 18 b0 0f e0 2f 18 e0 00 e0 hand	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>bf SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows ^ rotate left TURBO by 1 bit <, 8 character rows ^ rotate left TURBO by 1 bit ^ in place ^ 8 character rows ^ close rotate TURBO loop>' address at 0dfffh, i.e. 0e13ah</pre>
; gener le0aeh: ; set i	ajnz 1e084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ld hl,00f00h ld b,023h call Rotate ld de,02ffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0080h call Rotate dd l,008h call Rotate dd hl,de ex de,hl ld hl,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 y	<pre>;e091 rsions c ;e093 ;e096 ;e096 ;e096 ;e09e ;e0a1 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0b1 ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0bd ;e0c0 ;e0c1 with int ;e0c3</pre>	10 control	II JRBC 00 00 00 b0 ff 00 23 d0 ff 03 00 08 d0 08 d0 08 d0 08 d0 08 d0 08 d0) and 99 30 18 b0 0f e0 2f 18 e0 e0 e0 hand: 08	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>bf SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows ^ rotate left TURBO by 1 bit ^ in place ^ 8 character rows ^ close rotate TURBO loop>' address at 0dfffh, i.e. 0el3ah 8 bit rotate, starting from horizontal char 0</pre>
; gener leOaeh: ; set i	ajnz le084n ate 4 shifted ve: ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,00f00h ld hl,0023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0000h ld b,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 y ld bc,00800h ld a,0dfh	<pre>;e091 rsions c ;e093 ;e096 ;e096 ;e099 ;e09c ;e09e ;e0a1 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0b1 ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0bb ;e0bb ;e0c0 ;e0c1 with int ;e0c3 ;e0c6</pre>	10 pf TU 21 11 11 01 ed 11 21 06 cd 11 06 cd 19 eb 21 06 cd 19 eb 21 06 cd 20 20 cerru 01 3e	II JRBC 00 00 00 b0 ff 00 23 d0 ff 03 00 23 d0 ff 03 00 8 d0 00 8 d0 00 8 d0 00 8 d0 00 8 d0 00 10 10 00 00 00 00 00 00 00 00 00 00) and 99 30 18 b0 0f e0 2f 18 e0 00 e0 hand: 08	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>bf SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows ^ rotate left TURBO by 1 bit ^ in place ^ 8 character rows ! close rotate TURBO loop>' address at 0dffh, i.e. 0e13ah 8 bit rotate, starting from horizontal char 0</pre>
; gener leOaeh: ; set i	ajnz le084n ate 4 shifted ve. ld hl,T buffer ld de,03000h ld bc,01800h ld de,0b0ffh ld hl,00f00h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,00000h ld b,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 m ld bc,00800h ld a,0dfh ld i,a	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e004 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0ae ;e0b1 ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0b8 ;e0bb ;e0b8 ;e0bb ;e0c0 ;e0c1 with int ;e0c3 ;e0c6 ;e0c8</pre>	10 of TC 21 11 01 ed 11 21 21 21 21 21 21 21 21 21 21 21 21	II JRBC 00 00 b0 ff 00 23 d0 ff 00 23 d0 ff 00 08 d0 08 d0 08 d0 eb 100 04f 47) and 99 30 18 b0 0f e0 2f 18 e0 00 e0 hand: 08	; 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>bf SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows ^ rotate left TURBO by 1 bit ^ in place ^ 8 character rows ! close rotate TURBO loop>' address at 0dffh, i.e. 0el3ah 8 bit rotate, starting from horizontal char 0</pre>
; gener leOaeh: ; set i	ajnz le084n ate 4 shifted ve: ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,0000h ld hl,00100h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0000h ld b,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 ld bc,00800h ld a,0dfh ld i,a jm 2	<pre>;e091 rsions c ;e093 ;e096 ;e096 ;e099 ;e004 ;e004 ;e004 ;e006 ;e009 ;e00a ;e0b1 ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0b0 ;e0c1 with int ;e0c3 ;e0c6 ;e0c8 ;e0c8</pre>	10 of TU 21 11 01 04 ed 11 21 06 cd 11 06 cd 11 06 cd 19 eb 21 06 cd 10 10 21 06 cd 11 06 cd 10 11 06 cd 11 06 cd 10 11 06 cd 10 11 06 cd 10 11 06 cd 10 11 06 cd 10 10 10 10 10 10 10 10 10 10	II JRBC 00 00 b0 ff 00 23 df f0 00 23 df f0 00 00 8 d0 00 8 d0 00 8 d0 00 00 b0 ff 00 230 df f0 0 00 00 b0 ff 00 00 00 b0 ff 00 00 00 b0 ff 00 00 00 00 00 b0 ff 00 00 00 b0 ff 00 00 00 b0 ff f0 00 00 00 b0 ff f0 00 00 b0 ff f0 00 00 b0 ff f0 00 00 b0 ff f0 00 00 b0 ff ff 00 00 b0 ff ff 00 00 b0 ff ff 00 00 b0 ff ff 00 230 ff ff 00 00 b0 ff ff 00 230 ff ff 00 00 b0 ff ff 00 230 ff ff 00 230 ff ff 00 00 b0 ff ff 00 00 ff ff 00 00 ff 00 00 ff ff) and 99 30 18 b0 0f e0 2f 18 e0 00 e0 hand: 08	; 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>bf SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows ^ rotate left TURBO by 1 bit ^ in place ^ 8 character rows ! close rotate TURBO loop>' address at 0dfffh, i.e. 0el3ah 8 bit rotate, starting from horizontal char 0</pre>
; gener leOaeh: ; set i leOcch:	ajnz le084n ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,000f00h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0080h call Rotate dec c jr nz,le0aeh nterrupt mode 2 y ld bc,00800h ld a,0dfh ld i,a im 2	<pre>;e091 rsions c ;e093 ;e096 ;e096 ;e096 ;e09c ;e09e ;e0a1 ;e0a6 ;e0a9 ;e0ac ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0bd ;e0c0 ;e0c1 with int ;e0c3 ;e0c6 ;e0ca</pre>	10 of TU 21 11 01 ed 11 21 06 cd 11 0e 21 06 cd 11 10 e 21 06 cd 21 00 cd 20 c	II JRBC 00 00 00 00 00 00 00 00 100 11 00 01 02 03 04 04 17 100 11 12 13 14 14 15) and 99 30 0f e0 2f 18 e0 00 e0 hand: 08	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>bf SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows rotate left TURBO by 1 bit ^ in place 8 character rows close rotate TURBO loop>' address at 0dffh, i.e. 0e13ah 8 bit rotate, starting from horizontal char 0</pre>
; gener le0aeh: ; set i le0cch:	ajnz le084n ate 4 shifted ve: ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,00f0h ld hl,00ffh ld hl,00ffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0000h ld b,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 m ld bc,00800h ld a,0dfh ld i,a im 2 ei	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e09e ;e0a1 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0b1 ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0bd ;e0c0 ;e0c1 with int ;e0c3 ;e0c6 ;e0c8 ;e0cc</pre>	10 of TU 21 11 01 04 11 21 06 cd 11 06 cd 20 cd 2 cd 20 cd cd cd cd cd cd cd cd cd cd	II JRBC 00 00 b0 ff 00 23 d0 ff 03 00 8 d0 00 8 d0 00 8 d0 00 8 d0 00 8 d0 00 8 d0 00 5 5 e) and 99 30 18 b0 0f 2f 18 e0 00 e0 hand: 08	; 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>enable interrupts < <,</pre>
; gener le0aeh: ; set i le0cch:	ajnz le084n ate 4 shifted ve. ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,00f00h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,h1 ld hl,00000h ld b,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 m ld bc,00800h ld a,0dfh ld i,a im 2	<pre>;e091 rsions c ;e093 ;e096 ;e096 ;e096 ;e004 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0ae ;e0b1 ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0bb ;e0bb ;e0b8 ;e0c0 ;e0c1 with int ;e0c3 ;e0c6 ;e0ca ;e0cc ;e0cd</pre>	10 of TC 21 11 01 ed 11 21 21 ed 11 21 06 cd 11 0e 21 06 cd 20 21 06 cd 20 cd 20 cerrc 01 3e ed ed fb 76	II JRBC 00 00 b0 23 d0 ff 03 23 d0 ff 03 00 08 d0 00 8 d0 eb 100 df 47 5e) and 99 30 18 b0 0f e0 2f 18 e0 00 e0 hand: 08	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>enable interrupts < <, halt</pre>
; gener le0aeh: ; set i le0cch:	ajnz leosan ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,0000h ld hl,0000h ld b,023h call Rotate ld de,02ffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0000h ld b,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 m ld bc,00800h ld a,0dfh ld i,a im 2 ei halt jr le0cch	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e09e ;e0a1 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0ae ;e0b1 ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0bb ;e0bb ;e0bb ;e0c1 with int ;e0c3 ;e0c6 ;e0c2 ;e0c4 ;e0cc ;e0c4</pre>	10 control	II JRBC 00 00 00 b0 b0 ff 03 d0 ff 03 00 01 02 02 03 040 041 05 100 11 12 13) and 99 30 18 b0 0f e0 2f 18 e0 00 e0 hand: 08	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>endle interrupts < <, halt loop until a key pressed>'</pre>
; gener leOaeh: ; set i leOcch:	ajnz leosan ate 4 shifted ve: ld hl,T_buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,00f00h ld b,023h call Rotate ld de,02ffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0080h call Rotate dec c jr nz,le0aeh nterrupt mode 2 ld bc,00800h ld a,0dfh ld i,a im 2 ei halt jr le0cch	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e09e ;e0a1 ;e0a4 ;e0a6 ;e0a9 ;e0ac ;e0ae ;e0b1 ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0bd ;e0c0 ;e0c1 with int ;e0c3 ;e0c6 ;e0ca ;e0cc ;e0cc ;e0cc</pre>	10 of TU 21 11 01 ed 11 21 06 cd 11 06 cd 11 00 21 00 dd 20 20 cerru 01 3e ed ed fb 76 18	II JRBC 00 00 00 00 b0 ff 00 23 d0 ff 00 00 60 01 02 02 03 04 17 16 17 16) and 99 30 0f e0 2f 18 e0 00 e0 hand: 08	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>protection forp of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows ^ rotate left TURBO by 1 bit ^ in place ^ 8 character rows ! close rotate TURBO loop>' address at 0dffh, i.e. 0e13ah 8 bit rotate, starting from horizontal char 0 enable interrupts < < <-, halti loop until a key pressed>'</pre>
; gener le0aeh: ; set i le0cch: Rotate:	ajnz leosan ate 4 shifted ve: ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,00f0h ld hl,00fh ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0000h ld b,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 y ld bc,00800h ld a,0dfh ld i,a im 2 ei halt jr le0cch ; subroutine to	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e09e ;e004 ;e004 ;e004 ;e004 ;e004 ;e004 ;e005 ;e0b6 ;e0b7 ;e0b8 ;e0b6 ;e0b7 ;e0b8 ;e0b6 ;e0c0 ;e0c1 with int ;e0c3 ;e0c6 ;e0c8 ;e0cc ;e0cc Rotate</pre>	10 of TU 21 11 01 04 11 21 06 cd 11 06 cd 11 06 cd 21 06 cd 21 06 cd 21 08 06 cd 21 08 06 06 06 06 06 06 06 06 06 06	II JRBC 00 00 00 00 00 00 00 00 00 0) and 99 30 18 b0 0f e0 2f 18 e0 00 e0 hand: 08	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows</pre>
; gener le0aeh: ; set i le0cch: Rotate:	ajnz leosan ate 4 shifted ve. ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,000fh ld hl,0070h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0000h ld b,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 y ld bc,00800h ld a,0dfh ld i,a im 2 ei halt jr le0cch ; subroutine to push bc	<pre>;e091 rsions c ;e093 ;e096 ;e096 ;e096 ;e097 ;e004 ;e004 ;e006 ;e007 ;e0b8 ;e0b8 ;e0b8 ;e0b8 ;e0b8 ;e0b8 ;e0b8 ;e0c0 ;e0c1 with int ;e0c3 ;e0c6 ;e0c8 ;e0ca ;e0cc ;e0cd ;e0ce Rotate ;e0d0</pre>	10 of TU 21 11 01 04 11 21 06 cd 11 06 cd 11 06 cd 21 cd 21	II JRBC 00 00 00 00 00 23 d0 fff 03 00 23 d0 00 8 d0 00 8 d0 00 8 d0 00 8 d0 00 8 d0 00 23 d0 fff 5 5 e 5 ff 5 6 5 fff 6 7 5 6 7 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7) and 99 30 18 b0 0f e0 2f 18 e0 00 e0 hand: 08	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>ended the top of spectrum copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows ^ rotate left TURBO by 1 bit ^ in place ^ 8 character rows ^ close rotate TURBO loop>' address at 0dffth, i.e. 0e13ah 8 bit rotate, starting from horizontal char 0 enable interrupts < < <-, halt loop until a key pressed>' e characters lines ending at DE+HL to DE save BC < < <,</pre>
; gener le0aeh: ; set i le0cch: Rotate:	ajnz leusan ate 4 shifted ve. ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,00f00h ld b,023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,00000h ld b,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 m ld bc,00800h ld a,0dfh ld i,a im 2 ei halt jr le0cch ; subroutine to push bc ld c,008h	<pre>;e091 rsions c ;e093 ;e096 ;e097 ;e096 ;e099 ;e004 ;e004 ;e004 ;e006 ;e007 ;e008 ;e00b7 ;e00b8 ;e00b7 ;e00b8 ;e00b7 ;e00c1 with int ;e0c3 ;e0cc ;e0cc ;e0cc ;e0cc ;e0cc Rotate ;e0d1</pre>	10 10 10 10 10 11 11 11 11 11	II JRBC 00 00 00 00 00 00 00 00 00 0) and 99 30 18 b0 0f e0 2f 18 e0 00 e0 hand: 08	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>prove the try of protate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows</pre>
; gener leOaeh: ; set i leOcch: Rotate: leOd3h:	ajnz leosan ate 4 shifted ve: ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,0000h ld hl,0010h ld b,023h call Rotate ld de,02ffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0000h ld b,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 ld bc,00800h ld a,0dfh ld i,a im 2 ei halt jr le0cch ; subroutine to push bc ld c,008h	<pre>;e091 rsions c ;e093 ;e096 ;e097 ;e096 ;e097 ;e004 ;e004 ;e004 ;e007 ;e0b3 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0b0 ;e0c1 with int ;e0c3 ;e0c6 ;e0c8 ;e0cc Rotate ;e0d1</pre>	10 of TU 21 11 01 ed 11 02 11 06 cd 11 06 cd 11 06 cd 11 06 cd 11 06 cd 10 06 cd 10 06 cd 10 06 cd 10 06 cd 10 10 06 cd 10 06 cd 10 10 06 cd 10 10 06 cd 10 10 06 cd 10 10 06 cd 10 cd cd cd 10 cd 10 cd cd cd cd cd cd cd cd cd cd	II JRBC 00 00 00 00 00 00 00 00 00 0) and 99 30 18 b0 0f e0 2f 18 e0 00 e0 hand: 08	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>prove the try of f SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows ^ rotate left TURBO by 1 bit ^ in place ^ 8 character rows ^ close rotate TURBO loop>' address at 0dffh, i.e. 0el3ah 8 bit rotate, starting from horizontal char 0 enable interrupts < < <-, halt loop until a key pressed>' e characters lines ending at DE+HL to DE save BC < < <, 8 lines per character</pre>
; gener leOaeh: ; set i leOcch: Rotate: leOd3h:	ajnz leosan ate 4 shifted ve: ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,00f0h ld hl,0023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0000h ld b,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 m ld c,00800h ld a,0dfh ld i,a im 2 ei halt jr le0cch ; subroutine to push bc ld c,008h	<pre>;e091 rsions c ;e093 ;e096 ;e099 ;e09c ;e09e ;e004 ;e004 ;e006 ;e007 ;e0b8 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0c0 ;e0c1 with int ;e0c3 ;e0c6 ;e0c2 ;e0cd ;e0cd ;e0c4 ;e0c4 ;e0c4 ;e0c4 ;e0c4 ;e0c4 ;e0c4 ;e0c4 ;e0c4</pre>	10 of TU 21 11 01 04 11 21 06 cd 11 06 cd 11 06 cd 21 06 cd 21 06 cd 21 06 cd 21 08 06 cd 21 06 cd 21 06 06 cd 21 06 06 cd 21 06 06 cd 21 06 cd 21 06 cd 21 06 cd 21 06 cd 21 06 cd 21 06 cd 20 cd 20 cd 2 cd 20 cd cd cd cd cd cd cd cd cd cd	II JRBC 00 00 00 00 00 00 00 00 00 0) and 99 30 18 b0 0f e0 2f 18 e0 00 e0 hand: 08	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows 1 rotate left TURBO by 1 bit ^ in place ^ 8 character rows 1 close rotate TURBO loop>' address at 0dffh, i.e. 0e13ah 8 bit rotate, starting from horizontal char 0 enable interrupts < < <-, halt 1 loop until a key pressed>' e characters lines ending at DE+HL to DE save EC < < <, 8 lines per character ^ save HL < < <, ^ </pre>
; gener leOaeh: ; set i leOcch: Rotate: leOd3h:	ajnz leosan ate 4 shifted ve: ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,00f0h ld hl,00fh ld hl,002fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,hl ld hl,0000h ld b,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 y ld bc,00800h ld a,0dfh ld i,a im 2 ei halt jr le0cch ; subroutine to push hl add hl,de	<pre>;e091 rsions c ;e093 ;e096 ;e096 ;e096 ;e097 ;e004 ;e004 ;e006 ;e007 ;e0b8 ;e0b6 ;e0b7 ;e0b8 ;e0bb ;e0b7 ;e0b8 ;e0bb ;e0c0 ;e0c1 with int ;e0c3 ;e0c6 ;e0c4 ;e0c6 ;e0c4 ;e0c4 ;e0c4 ;e0d3 ;e0d4</pre>	10 of TU 21 11 01 02 11 21 21 06 cd 11 06 cd 21 06 cd 20 21 06 cd 20 20 cd 20 21 06 cd 21 06 cd 21 21 06 cd 21 21 10 11 21 21 21 21 21 21 21 21 21 21 21 21	II JRBC 00 00 00 00 00 00 00 00 00 0) and 99 30 18 b0 0f e0 2f 18 e0 00 e0 hand: 08	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows rotate left TURBO by 1 bit in place 8 character rows close rotate TURBO loop>' address at 0dfffh, i.e. 0e13ah 8 bit rotate, starting from horizontal char 0 enable interrupts < < <-, halt loop until a key pressed>' e characters lines ending at DE+HL to DE save BC < < < <, 8 lines per character save HL < < < <, i = 1</pre>
; gener leOaeh: ; set i leOcch: Rotate: leOd3h:	ajnz leosan ate 4 shifted ve. ld hl,T buffer ld de,03000h ld bc,01800h ld bc,01800h ld hl,00f00h ld hl,0023h call Rotate ld de,02fffh ld c,003h ld hl,01800h ld b,008h call Rotate add hl,de ex de,h1 ld hl,00000h ld b,008h call Rotate dec c jr nz,le0aeh nterrupt mode 2 m ld bc,00800h ld a,0dfh ld i,a im 2 ei halt jr le0cch ; subroutine to push bc ld c,008h push hl add hl,de ld b,060h	<pre>;e091 rsions c ;e093 ;e096 ;e096 ;e096 ;e097 ;e004 ;e004 ;e006 ;e007 ;e0b8 ;e0bb ;e0b8 ;e0b8 ;e0b8 ;e0b8 ;e0c0 ;e0c1 with int ;e0c3 ;e0cc ;e0cc ;e0cc Rotate ;e0d3 ;e0d3 ;e0d4 ;e0d5</pre>	10 of TU 21 11 01 04 11 21 06 cd 19 eb 21 06 cd 19 eb 21 06 cd 19 eb 21 06 cd 10 06 cd 10 21 06 cd 11 06 cd 10 10 06 cd 10 06 cd 10 06 cd 10 06 cd 10 06 cd 10 06 cd 10 06 cd 10 06 cd 10 06 cd 10 06 cd 21 06 cd 21 06 cd 21 06 cd 21 06 cd 21 06 cd 21 06 cd 21 06 cd 21 06 cd 20 cd 20	II JRBC 00 00 00 00 00 00 00 100 230 ff 00 01 02 03 04 05 06) and 99 30 18 b0 0f e0 2f 18 e0 00 e0 hand: 08	, 8;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<pre>of SPECTRUM copy TURBO from 09900h to 03000h rotate left SPECTRUM by 1 bit, 7 times 7 x 5 = 35 character rows 3 times rotate left TURBO by 1 bit <, 8 character rows</pre>

1	ld a, (hl)	;e0d7	7e			;b	rotate left 1 bit <, ^ ^
	rla	;e0d8	17			;	i II
	ld (de),a	;e0d9	12			;	
	dec hl dec de	;e0da .e0db	2b 1b			;	
	djnz le0d7h	;e0dc	10 :	f9		;	close byte loop>'
	jr nc,le0e5h	;e0de	30	05		;	
	ld hl,00060h	;e0e0	21	60 0	0 0	;b	increment the last byte
	add hl,de	;e0e3	19			;	in case a 1 bit was ^ ^
le0e5h:	IIIC (III)	,0004	34			;	
	pop hl	;e0e5	e1			;	restore HL
	dec c	;e0e6	0d			;	
	jr nz,ieuasn	;eue/ .e0e9	20 e	ea		;	close line loop>> -' restore BC
	djnz Rotate	;e0ea	10 0	e4		;	close character row loop>'
	ret	;e0ec	c9			;	return
Q					T . 1		
Copy:	; subroutine to	copy 1 .e0ed	line 22	01 16 d	L Chi lb	ara •	acter rows starting from IX to IY-UIUn save HI. < < < < <
	ld sp,ix	;e0f0	dd :	10 0 f9		; ;b	read 16 bytes from (IX)
	pop af	;e0f2	f1			;	
	pop bc	;e0f3	c1			;	
	pop de	;e0f4	d1			; [^
	pop ni ev af af'	;eUI5 ;eOf6	08 08			; •	
	exx	;e0f7	d9			;	
	pop af	;e0f8	f1			;	^
	pop bc	;e0f9	c1			;	
	pop de	;e0fa	d1			;	^
	pop hl ld sp iv	;eUib	ei fd	fQ		;e	write them to (TV-010b)
	nush hl	;e0fe	e5	19		;	
	push de	;e0ff	d5			;	^
	push bc	;e100	c5			;	
	push af	;e101	f5			;	
	ex af, af'	;e102	80			;	
	exx push hl	;e103 :e104	a9 e5			; :	
	push de	;e105	d5			;	
	push bc	;e106	c5			;	
	push af	;e107	f5			;e	^
	ld de,00010h	;e108	11	10 0 10	0	;b	next 16 bytes
	add 1x,de	;elUb :elOd	dd . fd '	19 19		;	
	ld sp,ix	;e10f	dd :	19 f9		;b	read 16 bytes from (IX)
	pop af	;e111	f1			;	
	pop bc	;e112	c1			;	^
	pop de	;e113	d1			;	
	pop ni ev af af'	;e114	08 08			; •	
	exx	;e116	d9			;	1
	pop af	;e117	f1			;	
	pop bc	;e118	c1			;	^
	pop de	;e119	d1			;	
	pop ni ld sp iv	;ella •ellb	ei fd	fQ		;e .h	write them to (IV-010b)
	push hl	;e11d	e5	1)		;	
	- push de	;elle	d5			;	I
	push bc	;e11f	c5			;	Α
	push af	;e120	f5			;	
	exx	;e122	00 19			, ;	
	push hl	;e123	e5			;	
	- push de	;e124	d5			;	I
	push bc	;e125	c5			;	^
	push af	;e126	f5	E 0 0		;e	
	ld de,UUUSUN	;e127	dd '	50 U 19	0	; D 	move ix to next source line
	ld e,010h	;e12c	1e 1	10		;b	move IY to next destination line ^
	add iy,de	;e12e	fd	19		;e	· · · · · · · · · · · ·
	ld hl,(HL_save)	;e130	2a 1	16 d	lb	;	restore HL ^
	dec l	;e133	2d	L 7		;	
	ld sp.0e7fab	;e134 ;e136	∠∪ J 31 ·	ນ/ fa e	-7	; :	restore SP
	ret	;e139	c9	-u C		;	return
IntHand	ler:					;	(07ffeh) holds the 0e0ceh Return Address
; There	are 8 * 64 rotat	tion pha	ases,	8 b	its j	pei	r character and 64 characters,
; Which	it phase is store	incerrup ed to B	and t	or 1 the	char	cor act	nus ter phase to C
; TURBO	rotates left 2 1	pixels r	ber f:	rame	e inte	eri	rupt and SPECTRUM 1 pixel.
; TURBO	completes a rota	ation cy	/cle 2	2 ti	mes	fas	ster than SPECTRUM.
; Both	TURBO and SPECTRU	UM compl	letel	у ех	it t	he	screen on the left before they reappear on the right.
1	push bc	;e13a	c5			;	save BC to (0e7fch)

; copy SPECTRUM starting at 0c860h, the 4th character line of the 2nd third of the screen ;e13b 3e 39 ;b determine high address of SPECTRUM source ld a,039h le13dh: ;| 039h + 00fh * B ; | B=8 ,B=7 ,B=6 ,B=5 ,B=4 ,B=3 ,B=2 ,B=1 add a,00fh ;e13d c6 0f djnz le13dh ;e13f 10 fc ;e 0b1h,0a2h,093h,084h,075h,066h,057h,048h ;b source address ;e141 dd 67 ld ixh,a dd 69 ld ixl,c ;e143 ;e fd 21 70 c8; destination address + 010h ld iy,0c870h :e145 ld h1,00805h ;e149 21 05 08 ; 8 lines of 5 character rows lel4ch: call Copy ;e14c cd ed e0 ; (0e7fah) holds 0e14fh <-- <-- <--, 11 60 00 ;b set IY to next destination line ld de,00060h ;e14f add iv,de ;e152 fd 19 ;e ld 1,005h ;e154 2e 05 ; 5 character rows ;e156 25 dec h ; ;e157 20 f3 jr nz,le14ch ; close SPECTRUM loop --> --> -' ; keyboard test xor a ;e159 af ; 06 64 ; 100 loops ld b,064h ;e15a ; delay = 4495/3500 = 1.28 ms cycles ; A=in(000feh) <-- <-- <-- <-- 11 le15ch: in a,(Ofeh) :e15c db fe e6 1f and 01fh ;e15e : 1 cp 01fh :e160 fe 1f : ; jump if a key was pressed | 7 ; close keyboard test --> -->' 13,8: 45*100-5=4495 jr nz,Kev ;e162 20 36 djnz le15ch :e164 10 f6 ; copy TURBO to the 1st third of the screen le166h: pop bc ;e166 c1 ; restore BC ; save BC to (0e7fch) ;b TURBO is rotated twice as fast (2 bits at a time) ;e167 push bc с.5 78 ld a,b ;e168 : | C *= 2: dec a :e169 3d ; | if (B>4) B-=4; and 003h e6 03 ;e16a 3c inc a ;e16c ; | else C++; cp b ;e16d b8 : 1 ld b,a ;e16e 47 ; | :e16f 79 ld a,c ; | ccf ;e170 3f ; | :e171 17 rla : 1 and 03fh e6 3f ;e172 ; | :e174 ld c,a 4 f :e ld a,0d0h ;e175 3e d0 ;b determine high address of TURBO source ;| 0d0h + 018h * B le177h: ;| B=4 ,B=3 ,B=2 ,B=1 c6 18 :e177 add a,018h ;e 030h,018h,000h,0e8h dinz le177h ;e179 10 fc ;b source address ld ixh,a ;e17b dd 67 ld ixl,c ;e17d dd 69 ;e ld iy,0c010h fd 21 10 c0; destination address + 010h ;e17f ld hl,00808h ;e183 21 08 08 ; 8 lines of 8 character rows le186h: ; (0e7fah) holds 0e189h <-, ; 8 character rows ^ call Copy :e186 cd ed e0 ;e189 2e 08 ld 1,008h dec h :e18b 25 : ; close TURBO loop --> --> jr nz,le186h 20 f8 ;e18c pop bc ;e18e c1 ; restore BC djnz le198h 10 07 ;e18f ; jump if not done with bits ld b,008h 06 08 ;e191 : 8 bits ;b increment C modulo 64 0c 79 inc c ;e193 ld a.c ;e194 ; | and 03fh ;e195 e6 3f : | ld c,a ;e197 4 f ;e 1e198h• reti ;e198 ed 4d ; return from interrupt ; a key was pressed Key: ld a,0fbh ;e19a 3e fb ; in a,(Ofeh) ;el9c db fe ; A=in(Ofbfeh), row KAa ; jump if T was pressed ; and 010h ;e19e e6 10 jr z,T kev ;ela0 28 69 ld a,0fdh ;ela2 3e fd in a,(Ofeh) db fe ; A=in(Ofdfeh), row KA9 ;ela4 and 002h ;ela6 e6 02 ;ela8 28 60 ; jump if S was pressed jr z,S_key ; go to Spectrum mode xor a ;elaa af ;b out(000feh)=000h out (Ofeh),a d3 fe ;e set black border and clear O5 (input to !CE flop) ;elab in a,(Ofeh) ;elad db fe ; !CE=0; A=in(000feh), row KA9 ld hl,00558h 21 58 05 ;elaf ;b copy Spectrum code ld de,08000h ;e1b2 11 00 80 ; | from (00558h)-(03dc5h) ld bc,0386eh ;e1b5 01 6e 38 ; | to (08000h) - (0b86dh) ;e1b8 ldir ed b0 ;e

	ld a,0ffh ld bc,09205h	;elba ;elbc	3e ff 01 05 92	;b fill (0b86eh)-(0bcffh) ; with 0ffh
le1bfh:	·			;]
	ld (de),a	;elbf	12	;
	djnz le1bfh	;e1c1	10 fc	;
	dec c	;elc3	0d	;
	jr nz,leibin inc a	;e1c4 ;e1c6	20 I9 3c	;e :b fill (0bd00h)-(0bd07h)
	ld b,008h	;e1c7	06 08	; with 000h
le1c9h:	ld (do) o	•0109	1.2	; (blank character)
	inc de	;elca	13	;
	djnz le1c9h	;elcb	10 fc	;e
le1cfh•	ld b,05fh	;elcd	06 5±	; unpack remaining 05th characters :
	push bc	;elcf	c5	; save BC < < <,
	ld bc,00006h	;e1d0	01 06 00	;
	inc de	;eld3;eld4	13	; IIISC DYCE IS OUDIN
	ldir	;e1d5	ed b0	; copy middle 6 bytes ^
	ld (de),a inc de	;eld7 :eld8	12	; last byte is 000h . ^
	pop bc	;e1d9	c1	; restore BC
	djnz le1cfh	;elda	10 f3	; close character loop '
	ld hl,Bytes	;eldf	21 f3 e1	; 12 Dytes ; Bytes structure
	ld de,0bd27h	;ele2	11 27 bd	; start address
lele5h:	ldi	:ele5	ed a0	$CODY$ (HI) to (DE) \leq
	jp po,Done	;e1e7	e2 df e2	; jump if done
	ld a, (hl)	;elea	7e	;b add increment ^
	add a,e	;elec	83	;
	ld e,a	;eled	5f	;e
	jr nc,lele5h inc d	;elee :elf0	30 £5 14	;b close ^ : byte
	jr le1e5h	;elf1	18 f2	;e loop>>>
Bytes:				: Bytes structure
2,000.	defb 00)8h		; byte c
	dofb 02fb 01	01-		
	defb 077b 02	20h		; increment, byte b
	defb 0311,01 defb 077h,02 defb 08fh,00	20h 20h		; increment, byte b ; increment, byte a ; increment, byte 9
	defb 0311,01 defb 077h,02 defb 08fh,00 defb 08fh,01	20h 20h 5fh		; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 8
	defb 03fh,02 defb 08fh,00 defb 08fh,06 defb 03fh,03 defb 017h,01	20h 20h 2fh 38h 18h		<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 8 ; increment, byte 7 ; increment, byte 6</pre>
	defb 0311/01 defb 077h,02 defb 08fh,00 defb 08fh,01 defb 03fh,03 defb 017h,02 defb 08fh,01 defb 03fh,03 defb 017h,02 defb 02fh,04	20h 20h 5fh 38h 18h		<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 8 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5</pre>
	defb 0311,01 defb 077h,02 defb 08fh,00 defb 08fh,01 defb 03fh,03 defb 017h,02 defb 03fh,03 defb 017h,01 defb 017h,02 defb 017h,03 defb 017h,03 defb 017h,04 defb 007h,04	20h 20h 5fh 38h 18h 40h 06h		<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 8 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 4 ; increment, byte 3</pre>
	defb 0311,01 defb 077h,02 defb 08fh,00 defb 08fh,03 defb 03fh,03 defb 02fh,04 defb 02fh,03 defb 03fh,03 defb 03fh,03 defb 03fh,03 defb 03fh,03 defb 03fh,03 defb 02fh,04	20h 20h 20h 2fh 38h 18h 40h 26h 38h		<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 8 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 4 ; increment, byte 3 ; increment, byte 2</pre>
	defb 0311/01 defb 0371/02 defb 08fh,00 defb 03fh,03 defb 03fh,03 defb 02fh,04 defb 02fh,04 defb 03fh,03 defb 02fh,04 defb 03fh,03 defb 03fh,03 defb 03fh,03 defb 02fh,04 defb 03fh,03 defb 028h,03 defb 026h,04	20h 20h 5fh 38h 40h 96h 38h 36h 36h		<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 4 ; increment, byte 3 ; increment, byte 1</pre>
S_key:	defb 0311,01 defb 0311,02 defb 08fh,00 defb 03fh,03 defb 03fh,03 defb 03fh,03 defb 02fh,04 defb 02fh,03 defb 03fh,03 defb 03fh,03 defb 03fh,03 defb 02fh,04 defb 03fh,03 defb 02fh,03 defb 03fh,03 defb 02fh,03	20h 20h 30h 5fh 38h 18h 10h 96h 38h 38ch 38ch		<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 4 ; increment, byte 3 ; increment, byte 1 ; E=060h</pre>
S_key:	defb 077h,02 defb 08fh,00 defb 08fh,03 defb 03fh,03 defb 017h,01 defb 03fh,03 defb 03fh,03 defb 02fh,04 defb 02fh,03 defb 03fh,03 defb 02fh,03	20h 20h 5fh 88h 88h 88h 88h 88ch 38ch ;e20a	83	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 4 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h</pre>
S_key: T_key:	defb 077h,02 defb 08fh,00 defb 08fh,00 defb 03fh,03 defb 017h,01 defb 02fh,03 defb 007h,00 defb 03fh,03 defb 008h,03 defb 006h,03 add a,e	20h 20h 20h 5fh 88h 88h 38h 38h 38ch ;e20a ;e20b	83 £5	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 4 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=060h ; a=060h ; save AF</pre>
S_key: T_key:	defb 077h,02 defb 08fh,00 defb 08fh,00 defb 03fh,03 defb 017h,01 defb 02fh,03 defb 007h,00 defb 03fh,03 defb 028h,03 defb 008h,03 defb 006h,03 add a,e	20h 20h 20h 5fh 88h 88h 96h 88h 88ch 38ch ;e20a ;e20b ;e20c	83 f5 dd 21 00 5	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 4 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=000h ; A=000h ; save AF 80;</pre>
S_key: T_key:	defb 077h,02 defb 08fh,00 defb 08fh,00 defb 03fh,03 defb 017h,01 defb 02fh,03 defb 02fh,03 defb 02fh,03 defb 028h,03 defb 028h,03 defb 006h,03 add a,e push af ld ix,08000h ld a,0ffh ld de,04000b	20h 20h 20h 5fh 38h 48h 40h 26h 38ch 38ch 38ch 38ch 38ch 38ch 38ch 38c	83 f5 dd 21 00 3 3e ff 11 00 40	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=000h ; save AF 80; ;</pre>
S_key: T_key:	defb 077h,02 defb 08fh,00 defb 08fh,00 defb 03fh,03 defb 017h,01 defb 02fh,04 defb 007h,00 defb 03fh,03 defb 028h,03 defb 008h,03 defb 006h,03 add a,e push af ld ix,08000h ld a,0ffh ld de,04000h jr nz,le21ah	20h 20h 50h 5fh 38h 48h 40h 06h 38ch 38ch 38ch 38ch 38ch 38ch 38ch 38c	83 f5 dd 21 00 3 3e ff 11 00 40 20 03	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=000h ; save AF 80; ; ; jump if S was pressed</pre>
S_key: T_key:	defb 077h,02 defb 08fh,00 defb 08fh,00 defb 03fh,03 defb 017h,01 defb 02fh,04 defb 007h,00 defb 028h,03 defb 028h,03 defb 028h,03 defb 006h,03 add a,e push af ld ix,08000h ld a,0ffh ld de,04000h jr nz,1e21ah ld ixh,000h	20h 20h 20h 5fh 38h 40h 06h 38h 38ch 38ch 38ch 38ch 38ch 38ch 38ch	83 f5 dd 21 000 3e ff 11 00 40 20 03 dd 26 00	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=060h ; a=000h ; save AF 80; ; ; jump if S was pressed ; </pre>
S_key: T_key: le21ah:	defb 077h,02 defb 08fh,00 defb 08fh,00 defb 03fh,03 defb 017h,01 defb 02fh,04 defb 007h,00 defb 02fh,03 defb 028h,03 defb 028h,03 defb 006h,03 add a,e push af ld ix,08000h ld a,0ffh ld de,04000h jr nz,1e21ah ld ixh,000h and a	20h 20h 20h 56h 38h 40h 26h 38h 38ch 38ch 38ch 38ch 38ch 38ch 38ch	83 f5 dd 21 00 9 3e ff 11 00 40 20 03 dd 26 00 a7	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=060h ; A=000h ; save AF 80; ; ; jump if S was pressed ; ; IX = T_was_pressed ? 00000h : 08000h ;</pre>
S_key: T_key: le21ah:	defb 077h,02 defb 08fh,00 defb 08fh,00 defb 03fh,03 defb 017h,01 defb 02fh,03 defb 007h,00 defb 007h,03 defb 028h,03 defb 028h,03 defb 006h,03 add a,e push af ld ix,08000h ld a,0ffh ld de,04000h jr nz,1e21ah ld ixh,000h and a scf	20h 20h 20h 56h 58h 88h 40h 96h 88ch 38ch 38ch 38ch 38ch 38ch 38ch 38c	83 f5 dd 21 00 3 3e ff 11 00 40 20 03 dd 26 00 a7 37	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=000h ; save AF 80; ; ; jump if S was pressed ; ; IX = T_was_pressed ? 00000h : 08000h ; ;</pre>
S_key: T_key: le21ah:	defb 0311,01 defb 077h,02 defb 08fh,00 defb 08fh,03 defb 017h,01 defb 02fh,03 defb 017h,01 defb 02fh,03 defb 007h,00 defb 03fh,03 defb 008h,03 defb 006h,03 add a,e push af ld ix,08000h ld a,0ffh ld de,04000h jr nz,1e21ah ld ixh,000h and a scf ex af,af' ld a,02fb	20h 20h 20h 20h 5fh 88h 88h 36h 36h 36h 36h 36h 36h 36h 36h 36h 36	83 f5 dd 21 00 8 3e ff 11 00 40 20 03 dd 26 00 a7 37 08 3e 2f	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 5 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=000h ; ave AF 80; ; ; jump if S was pressed ; ; IX = T_was_pressed ? 00000h : 08000h ; ; ; ; ; b out (002feb)=02fb</pre>
S_key: T_key: le21ah:	defb 0311,01 defb 077h,02 defb 08fh,00 defb 08fh,03 defb 017h,01 defb 02fh,03 defb 007h,00 defb 007h,00 defb 007h,00 defb 008h,03 defb 008h,03 defb 006h,03 add a,e push af ld ix,08000h ld a,0ffh ld de,04000h jr nz,le2lah ld ixh,000h and a scf ex af,af' ld a,02fh out (0feh),a	20h 20h 20h 20h 38h 38h 38h 38h 38h 38h 38h 38h 38h 38	83 f5 dd 21 00 9 3e ff 11 00 40 20 03 dd 26 00 a7 37 08 3e 2f d3 fe	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 3 ; increment, byte 1 ; E=060h ; A=060h ; A=060h ; A=000h ; save AF 80; ; ; jump if S was pressed ; ; IX = T_was_pressed ? 00000h : 08000h ; ; ; b out(002feh)=02fh ; e set white border, TO, and O5 (input to !CE flop)</pre>
S_key: T_key: le21ah:	defb 077h,02 defb 08fh,00 defb 08fh,00 defb 08fh,00 defb 017h,01 defb 017h,01 defb 02fh,03 defb 007h,00 defb 007h,00 defb 03fh,03 defb 008h,03 defb 008h,03 defb 006h,03 add a,e push af ld ix,08000h ld a,0ffh ld de,04000h jr nz,1e21ah ld ixh,000h and a scf ex af,af' ld a,02fh out (0feh),a ld h1,1e2c8h push b1	20h 20h 20h 20h 38h 38h 38h 38h 38ch 38ch 38ch 38ch 38	83 f5 dd 21 00 3 3e ff 11 00 40 20 03 dd 26 00 a7 37 08 3e 2f d3 fe 21 c8 e2 e5	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=060h ; A=000h ; save AF 80; ; ; jump if S was pressed ; ; IX = T_was_pressed ? 00000h : 08000h ; ; ; b out(002feh)=02fh ; e set white border, TO, and O5 (input to !CE flop) ; ; push 0e2c8b</pre>
S_key: T_key: le2lah:	defb 077h,02 defb 08fh,00 defb 08fh,00 defb 03fh,03 defb 017h,01 defb 02fh,03 defb 02fh,04 defb 007h,00 defb 02fh,03 defb 008h,03 defb 008h,03 defb 006h,03 add a,e push af ld ix,08000h ld a,0ffh ld de,04000h jr nz,le2lah ld ixh,000h and a scf ex af,af' ld a,02fh out (0feh),a ld hl,1e2c8h push hl in a,(0feh)	20h 20h 20h 20h 20h 20h 20h 38h 38h 38h 38h 38h 38h 38h 38	83 f5 dd 21 00 3 3e ff 11 00 40 20 03 dd 26 00 a7 37 08 3e 2f d3 fe 21 c8 e2 e5 db fe	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=060h ; A=060h ; A=000h ; save AF 80; ; ; jump if S was pressed ; ; IX = T_was_pressed ? 00000h : 08000h ; ; ; b out(002feh)=02fh ; e set white border, TO, and O5 (input to !CE flop) ; ; push 0e2c8h ; !CE=1; A=in(002feh)</pre>
S_key: T_key: le21ah:	defb 0311,01 defb 08fh,03 defb 08fh,03 defb 03fh,03 defb 017h,01 defb 03fh,03 defb 02fh,04 defb 02fh,03 defb 02fh,03 defb 02fh,03 defb 02fh,03 defb 02fh,03 defb 00fh,03 add a,e 006h,03 add a,e 000h and a scf ex af,af' 1d a,02fh out (0feh),a 1d h,1e2c8h push h1 in a,(0feh)<	20h 20h 20h 20h 20h 38h 48h 38h 38h 38h 38h 38h 38h 38h 3	83 f5 dd 21 00 f 3e ff 11 00 40 20 03 dd 26 00 a7 37 08 3e 2f d3 fe 21 c8 e2 e5 db fe 1f 26 20	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 5 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=060h ; A=000h ; save AF 80; ; ; jump if S was pressed ; ; IX = T_was_pressed ? 00000h : 08000h ; ; ; ; b out(002feh)=02fh ; e set white border, TO, and O5 (input to !CE flop) ; push 0e2c8h ; !CE=1; A=in(002feh) ;</pre>
S_key: T_key: le21ah:	defb 077h,02 defb 08fh,00 defb 08fh,00 defb 08fh,03 defb 017h,03 defb 017h,03 defb 02fh,03 defb 02fh,03 defb 02fh,03 defb 02fh,03 defb 00fh,03 defb 00fh,03 defb 00fh,03 defb 00fh ld ix,08000h ld a,0ffh ld de,04000h jr nz,1e21ah ld ixh,000h and a scf ex af,af' ld a,02fh out (0feh),a ld h1,1e2c8h push h1 in a,(0feh) rra and 020h or 002h	20h 20h 20h 38h 38h 38h 38h 38ch 38ch 38ch 38ch 38	83 f5 dd 21 00 f 3e ff 11 00 40 20 03 dd 26 00 a7 37 08 3e 2f d3 fe 21 c8 e2 e5 db fe 1f e6 20 f6 02	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 5 ; increment, byte 4 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=060h ; A=000h ; save AF 80; ; ; jump if S was pressed ; ; IX = T_was_pressed ? 00000h : 08000h ; ; ; ; b out(002feh)=02fh ; e set white border, TO, and O5 (input to !CE flop) ; ; push 0e2c8h ; !CE=1; A=in(002feh) ; ;</pre>
S_key: T_key: le2lah:	defb 077h,02 defb 08fh,00 defb 08fh,00 defb 08fh,03 defb 017h,03 defb 017h,03 defb 02fh,03 defb 02fh,03 defb 02fh,03 defb 02fh,03 defb 02fh,03 defb 00fh,03 defb 00fh,03 defb 00fh ld ix,08000h ld a,0ffh ld de,04000h jr nz,1e21ah ld ixh,000h and a scf ex af,af' ld a,02fh out (0feh),a ld h1,1e2c8h push h1 in a,(0feh) rra and 020h or 002h ld c,a	20h 20h 20h 20h 50h 50h 58h 88h 88h 88h 88ch 88ch 88ch 88ch 88ch 88ch 88ch 88ch 82ch 520c 5212 5212 5212 5212 5212 5212 5212 5212 5212 5212 5212 5212 5221 5222 5221 5221 5221 5221 5221 5221 5221 5221 5221 5221 5221 5221 5221 5222 522 5222 5222 5222 5222 5222 5222 5222 5222 5222 5222 5222 5225 5255 5255 5255 5255 5255 5255 5255 5255 5255 5255 5255 5255 5255 5255 5255	83 f5 dd 21 00 7 3e ff 11 00 40 20 03 dd 26 00 a7 37 08 3e 2f d3 fe 21 c8 e2 e5 db fe 1f e6 20 f6 02 4f	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 5 ; increment, byte 4 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=060h ; A=000h ; save AF 80; ; ; jump if S was pressed ; ; IX = T_was_pressed ? 00000h : 08000h ; ; ; b out(002feh)=02fh ; e set white border, TO, and O5 (input to !CE flop) ; ; push 0e2c8h ; !CE=1; A=in(002feh) ; ; C is 022h 0r 002h</pre>
S_key: T_key: le21ah:	defb 077h,02 defb 08fh,06 defb 08fh,03 defb 03fh,03 defb 017h,01 defb 017h,02 defb 017h,03 defb 017h,03 defb 017h,03 defb 017h,03 defb 02fh,03 defb 00fh defb 02ffh dd a,04fh da 02fh out (0feh),a id h1,1e2c8h push h1	20h 20h 20h 20h 50h 51h 88h 88h 88h 88h 88h 88h 88ch	83 f5 dd 21 00 f 3e ff 11 00 40 20 03 dd 26 00 a7 37 08 3e 2f d3 fe 21 c8 e2 e5 db fe 1f 20 f6 02 4f bf	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 5 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=060h ; A=000h ; save AF 80; ; ; jump if S was pressed ; IX = T_was_pressed ? 00000h : 08000h ; ; b out(002feh)=02fh ; e set white border, TO, and 05 (input to !CE flop) ; push 0e2c8h ; !CE=1; A=in(002feh) ; ; C is 022h 0r 002h ; Z=0</pre>
S_key: T_key: le21ah: le22eh:	defb 077h,02 defb 08fh,06 defb 08fh,06 defb 08fh,06 defb 017h,03 defb 017h,03 defb 02fh,04 defb 02fh,04 defb 02fh,03 defb 028h,03 defb 028h,03 defb 028h,03 defb 006h,03 add a,e push af ld ix,08000h ld a,0ffh ld de,04000h jr nz,1e21ah ld ixh,000h and a scf ex af,af' ld a,02fh out (0feh),a ld h,1e2c8h push h1 in a, (0feh) rra and 020h or 002h ld c,a cp a ret nz	20h 20h 20h 20h 50h 51h 88h 88h 88h 88h 88h 88ch 88ch 88ch 88ch 88ch 88ch 88ch 82ch 520c 520c 5212 5212 5212 5212 5212 5212 5212 5221 5222	83 f5 dd 21 00 f 3e ff 11 00 40 20 03 dd 26 00 a7 37 08 3e 2f d3 fe 21 c8 e2 e5 db fe 1f e6 20 f6 02 4f bf c0	<pre>; increment, byte b ; increment, byte a ; increment, byte 7 ; increment, byte 7 ; increment, byte 7 ; increment, byte 5 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=000h ; A=000h ; save AF 80; ; ; jump if S was pressed ; IX = T_was_pressed ? 00000h : 08000h ; ; ; b out(002feh)=02fh ; e set white border, TO, and O5 (input to !CE flop) ; ; push 0e2c8h ; !CE=1; A=in(002feh) ; ; C is 022h 0r 002h ; Z=0 ; jump if NZ (Space was pressed) to le2c8h</pre>
S_key: T_key: le21ah: le22eh: le22fh:	defb 077h,02 defb 08fh,06 defb 08fh,06 defb 03fh,03 defb 017h,01 defb 02fh,04 defb 007h,00 defb 028h,03 defb 028h,03 de	20h 20h 20h 20h 20h 20h 20h 20h	83 f5 dd 21 00 f 3e ff 11 00 40 20 03 dd 26 00 a7 37 08 3e 2f d3 fe 21 c8 e2 e5 db fe 1f e6 20 f6 02 4f bf c0 c0	<pre>; increment, byte b ; increment, byte a ; increment, byte 9 ; increment, byte 7 ; increment, byte 7 ; increment, byte 5 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=060h ; A=000h ; save AF 80; ; ; jump if S was pressed ? 00000h : 08000h ; ; ; b out(002feh)=02fh ; e set white border, TO, and O5 (input to !CE flop) ; ; push 0e2c8h ; !CE=1; A=in(002feh) ; ; C is 022h 0r 002h ; Z=0 ; jump if NZ (Space was pressed) to le2c8h ; cbeck is Space was pressed</pre>
S_key: T_key: le21ah: le22eh: le22fh:	defb 077h,02 defb 08fh,06 defb 08fh,06 defb 03fh,03 defb 017h,01 defb 02fh,04 defb 007h,00 defb 028h,03 defb 028h,03 defb 028h,03 defb 028h,03 defb 028h,03 defb 006h,03 add a,e push af ld ix,08000h ld a,0ffh ld de,04000h jr nz,1e21ah ld ixh,000h and a scf ex af,af' ld a,02fh out (0feh),a ld h1,1e2c8h push h1 in a,(0feh) rra and 020h or 002h ld c,a cp a ret nz call sub_e2aah jr nc,1e22eh	20h 20h 20h 20h 50h 51h 88h 88h 88h 80h 88h 88h 88ch 88ch 88ch 88ch 88ch 82ch 520c 5212 5212 5217 5212 5212 5212 5212 5212 5221 5222 522 5222 5	83 f5 dd 21 00 f 11 00 40 20 03 dd 26 00 a7 37 08 3e 2f d3 fe 21 c8 e2 e5 db fe 1f e6 20 f6 02 4f bf c0 cd aa e2 30 fa	<pre>; increment, byte b ; increment, byte a ; increment, byte 7 ; increment, byte 7 ; increment, byte 7 ; increment, byte 4 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=000h ; save AF 80; ; ; jump if S was pressed ? 00000h : 08000h ; ; ; b out(002feh)=02fh ; e set white border, TO, and O5 (input to !CE flop) ; ; push 0e2c8h ; !CE=1; A=in(002feh) ; ; ; C is 022h 0r 002h ; Z=0 ; jump if NZ (Space was pressed ; jump if Space was pressed ; jump if Space was pressed ; jump if Space was pressed</pre>
<pre>S_key: T_key: le21ah: le22eh: le22eh: le22fh:</pre>	defb 077h,02 defb 08fh,06 defb 08fh,06 defb 03fh,03 defb 017h,01 defb 02fh,04 defb 007h,00 defb 028h,03 defb 028h,03 defb 028h,03 defb 006h,03 add a,e push af ld ix,08000h ld a,0ffh ld de,04000h jr nz,1e21ah ld ixh,000h and a scf ex af,af' ld a,02fh out (0feh),a ld h1,1e2c8h push h1 in a,(0feh) rra and 020h or 002h ld c,a cp a ret nz call sub_e2aah jr nc,1e22eh ld h1,00415h	20h 20h 20h 20h 50h 51h 88h 80h 86h 86h 86h 86ch 86ch 86ch 86ch 86ch 87ch	83 f5 dd 21 00 3 se ff 11 00 40 20 03 dd 26 00 a7 37 08 3e 2f d3 fe 21 c8 e2 e5 db fe 1f e6 20 f6 02 4f bf c0 c0 cd aa e2 30 fa 21 15 04	<pre>; increment, byte b ; increment, byte a ; increment, byte 7 ; increment, byte 7 ; increment, byte 7 ; increment, byte 6 ; increment, byte 4 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=060h ; A=000h ; save AF 80; ; ; jump if S was pressed ; IX = T_was_pressed ? 00000h : 08000h ; ; ; b out(002feh)=02fh ; e set white border, TO, and 05 (input to !CE flop) ; ; push 0e2c8h ; !CE=1; A=in(002feh) ; ; C is 022h 0r 002h ; Z=0 ; jump if NZ (Space was pressed ; jump if Space was pressed ; jump if</pre>
<pre>S_key: T_key: le21ah: le22eh: le22fh: le237h:</pre>	defb 077h,02 defb 08fh,06 defb 08fh,06 defb 03fh,03 defb 017h,01 defb 02fh,04 defb 007h,00 defb 028h,03 defb 028h,03 defb 006h,03 add a,e push af ld ix,08000h ld a,0ffh ld de,04000h jr nz,1e21ah ld ixh,000h and a scf ex af,af' ld a,02fh out (0feh),a ld h1,1e2c8h push h1 in a,(0feh) rra and 020h or 002h ld c,a cp a ret nz call sub_e2aah jr nc,1e22eh ld h1,00415h dinz 1e237h	20h 20h 20h 20h 20h 20h 20h 20h	83 f5 dd 21 00 7 3e ff 11 00 40 20 03 dd 26 00 a7 37 08 3e 2f d3 fe 21 c8 e2 e5 db fe 1f e6 20 f6 02 4f bf c0 cd aa e2 30 fa 21 15 04 10 40 10 5 10	<pre>; increment, byte b ; increment, byte a ; increment, byte 7 ; increment, byte 7 ; increment, byte 7 ; increment, byte 5 ; increment, byte 3 ; increment, byte 2 ; increment, byte 1 ; E=060h ; A=060h ; A=000h ; save AF 80; ; ; jump if S was pressed ; jump if S was pressed ? 00000h : 08000h ; ; ; b out(002feh)=02fh ; e set white border, TO, and O5 (input to !CE flop) ; ; push 0e2c8h ; !CE=1; A=in(002feh) ; ; C is 022h 0r 002h ; Z=0 ; jump if NZ (Space was pressed ; jump if Space was pressed ; jump if Space was pressed ; jump if Space was pressed ; 1045 loops ; delay = 3499700/3500 = 1000 ms ; 13*256-5=3323 <-, cycles</pre>

10242	<pre>ld a,h or 1 jr nz,le237h call sub_e2a6h jr nc,le22eh</pre>	;e23a ;e23b ;e23c ;e23e ;e241	7c b5 20 f9 cd a6 e2 30 eb	;;;;;;	^ 4 4 close loop> -' 12,7: 3349*1045-5=3499700 check is Space was pressed jump if Space was pressed
16243	<pre>ld b,09ch call sub_e2a6h jr nc,le22eh ld a,0c6h cp b jr nc,le22fh inc h jr nz,le243h</pre>	;e243 ;e245 ;e248 ;e24a ;e24c ;e24d ;e24f ;e250	06 9c cd a6 e2 30 e4 3e c6 b8 30 e0 24 20 f1	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
10260	<pre>ld b,0c9h call sub_e2aah jr nc,le22eh ld a,b cp 0d4h jr nc,le252h call sub_e2aah ret nc ld a,c xor 003h ld c,a ld h,000h ld b,0b0h jr le28bh</pre>	;e252 ;e254 ;e257 ;e259 ;e25c ;e25c ;e261 ;e262 ;e263 ;e265 ;e266 ;e268 ;e26a	06 c9 cd aa e2 30 d5 78 fe d4 30 f4 cd aa e2 d0 79 ee 03 4f 26 00 06 b0 18 1f	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
1e200	<pre>ex af,af' jr nz,le276h jr nc,le280h ld (ix+000h),l jr le285h </pre>	;e26c ;e26d ;e26f ;e271 ;e274	08 20 07 30 0f dd 75 00 18 0f	;;;;;;	
	rl c xor l ret nz ld a,c rra ld c,a inc de ir le287h	;e276 ;e278 ;e279 ;e27a ;e27b ;e27c ;e27d ;e27d	cb 11 ad c0 79 1f 4f 13 18 07	;;;;;;;;;;	
le280	<pre>bh: ld a, (ix+000h) xor l ret nz</pre>	;e280 ;e283 ;e284	dd 7e 00 ad c0	;;;;	
le285	<pre>inc ix 'h: dec de ex af.af'</pre>	;e285 ;e287 ;e288	dd 23 1b 08	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
le28b	ld b,0b2h bh: ld l,001h	;e289 ;e28b	06 b2 2e 01	;	
le28c	<pre>th: call sub_e2a6h ret nc ld a,0cbh cp b rl l ld b,0b0h jp nc,1e28dh ld a,h xor l ld h,a ld a,d or e jr nz,1e26ch ld a,h cp 001h ret</pre>	;e28d ;e291 ;e293 ;e294 ;e296 ;e29b ;e29c ;e29d ;e29d ;e29f ;e29f ;e2a0 ;e2a2 ;e2a3	cd a6 e2 d0 3e cb b8 cb 15 06 b0 d2 8d e2 7c ad 67 7a b3 20 ca 7c fe 01 c9	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
sub_e	2a6h: call sub e2aah	;e2a5	cd aa e2	;	
	ret nc	;e2a9	d0	;	
sub_e	22aah: ld a,016h ch: dec a ir nz.le2ach	;e2aa ;e2ac	3e 16 3d 20 fd	;;;;.	B is 064h to 001h 22 loops delay = 347/3500 = 0.099 ms decrement <, 4 cycles close loop ->' 12.7: 1622-5=347
le2b0	and a h: inc b	;e2af ;e2b0	a7 04	;;	CY=0

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Id a,0" in a,(0		C8		;	return if B=0 and redo the loop
111 d, ((7fh ;e2b2	3e	7f fo	;	D-in(07ffob) nor KDf
rra	vien) ;e2D4 •e2b6	0.0 1 f	те	;	A=In(0/IIen), row KAI
ret nc	;e2b7	d0		;	return if Space was pressed
xor c	;e2b8	a9		;	
and 020	0h ;e2b9	e6	20	;	A is 020h if TI changed state, 000h if not
jr z,le	e2b0h ;e2bb	28	f3	;	wait for TI to change state
Id a,c	;ezba :e2be	79 2f		;	
ld c.a	;e2bf	4f		;	C=0dfh
and 00	7h ;e2c0	e6	07	;	
or 0281	h ;e2c2	f6	28	;b	out(002feh)=02fh
out (01	feh),a ;e2c4	d3	fe	;e	set white border, TO, and O5 (input to !CE flop)
sci	;e2C6	3/		;	
le2c8h·	, e207	09		'	
jr c,le	e2dbh ;e2c8	38	11	;	jump if CY to le2dbh
pop af	;e2ca	f1		;	
ld h,00	03h ;e2cb	26	03	;	768 to 1024 loops
le2cdh:	aladh alad	1.0	fo	;	delay = 257202773500 = 735 to 980 ms
dec bl	ezculi ;ezcu •e2cf	10 2h	Te		15-250-5-5525 <-, Cycres
ld a,h	;e2d0	7c		;	^ 4
or l	;e2d1	b5		;	4
jr nz,	le2cdh ;e2d2	20	f9	;	close loop> -' 12,7: 3349*768-5=2572027
ld a,02	20h ;e2d4	3e	20	;b	out(020feh)=020h
out (01	teh),a ;e2d6	d3	ie 66 ol	;e	set black border and 05 (input to !CE flop)
le2dbh·	0011 ;ezuo	03	00 ET	,	Conclude Torbo focation
pop af	;e2db	f1		;	
jp z,00	0000h ;e2dc	са	00 00	;	jump if Z to 00000h
_					
Done:	00000b	21	00 00		initializa SP-0000b
ld a 0	60b ;e2ai	30	60 00	; • h	10111120 SP=000000
out (01	feh),a ;e2e4	d3	fe	;e	set black border, 05 and 06 (inputs to !CE and SM flops)
ld hl,	Ofedbh ;e2e6	21	db fe	;	, <u>,</u> , , , , , , , , , , , , , , , , ,
push h	l ;e2e9	e5		;	write Odbfeh at (Offfeh) - this is: in a,(Ofeh)
jp Off:	feh ;e2ea	c3	fe ff	;	jump and execute it; A=in(060feh)
; then start es	xecuting in spec	c r um	mode irc	om a	address 00000n
- defb defb defb	Offh,Offh,Offh Of0h,Of0h,Of0h	,Offh ,OfOh	n,Offh,Of n,OfOh,Of	Efh, EOh,	,0ffh,0ffh; char 0 ,0f0h,0f0h; char 1
delb defb defb defb defb	0ffh,0feh,0feh 0feh,0fch,0fch 0f8h,0f0h,0e0h 0f0h,0e0h,0c0h 0c0h,080h,000h	,0111 ,0feh ,0f8h ,0c0h ,080h ,080h	n,0ffh,0f n,0fch,0f n,0f0h,0e n,080h,00 n,000h,00 n,000h,00	fch, fch, e0h, 00h, 00h, 00h,	,0f0h,080h; char 2 ,0f8h,0f8h; char 3 ,080h,000h; char 4 ,000h,000h; char 5 ,000h,000h; char 6 ,000h,000h; char 7
defb defb defb defb defb defb	0ffh,0feh,0feh 0feh,0fch,0fch 0f8h,0f0h,0e0h 0f0h,0e0h,0c0h 0c0h,080h,000h 080h,000h,000h	,0111 ,0feh ,0f8h ,0c0h ,080h ,080h ,000h	n,0ffn,0f n,0fch,0f n,0f0h,0e n,080h,00 n,000h,00 n,000h,00 n,000h,00	fch, fch, e0h, 00h, 00h, 00h,	,0f0h,080h; char 2 ,0f8h,0f8h; char 3 ,080h,000h; char 4 ,000h,000h; char 5 ,000h,000h; char 6 ,000h,000h; char 7 ,000h,000h; char 8
defb defb defb defb defb defb defb defb	0111,0111,0111 0111,0111,0111 0111,0111,	,0011 ,0162 ,0162 ,0207 ,0007 ,0007 ,0007 ,0007 ,0017 ,0007 ,007 ,0007 ,	h, Offn, Off h, Ofch, Off h, Ofch, Off h, Ofch, Oef h, O80h, OC h, O00h, OC h, O00h, OC h, O00h, OC h, O00h, OC h, O00h, OC h, O02h, OC h, O01h, OC h, OC h	Ech,, Ech,, Ech,, 00h,, 00h,, 00h,, 00h,, 00h,, 01h,, 01h,, 01h,, 01h,, 02h,, 02h,, 02h,, 01h,,	<pre>,0f0h,080h; char 2 ,0f8h,0f8h; char 3 ,080h,000h; char 5 ,000h,000h; char 5 ,000h,000h; char 6 ,000h,000h; char 7 ,000h,000h; char 8</pre>
defb defb defb defb defb defb defb defb	0111,0111,0111 0111,0111,0111 0111,0111,	,0011 ,0164 ,0680 ,0001 ,0001 ,0001 ,0001 ,0001 ,0011	A, OTFR, OT A, OTCH, OT A, OTCH, OT A, OTCH, OC A, OOOH, OC	<pre>Ech,, Ech,, Ech,, Ech,, 20h,, 2</pre>	<pre>,0f0h,080h; char 2 ,0f8h,0f8h; char 3 ,080h,000h; char 4 ,000h,000h; char 6 ,000h,000h; char 7 ,000h,000h; char 7 ,000h,000h; char 8 ; Character 0 start address ; number of char increments ,002h,001h; TURBO char increments ,002h,001h; ,002h,001h; ,002h,001h; ,002h,001h; ,002h,001h; ,002h,001h; ,001h,001h; ,001h,001h; ,001h,001h; ,001h,001h; ,001h,001h; ,001h,001h; ,001h,001h; ,001h,001h; ,001h,001h; ,001h,003h; SPECTRUM char increments ,002h,001h; ,002h,001h; ,002h,001h; ,002h,001h; ,002h,001h; ,003h,004h; ,003h,004h; ,003h,004h; ,001h,003h; ; Character 1, rotation 0 start address ; number of char increments</pre>
defb defb defb defb defb defb defb defb	0111,0111,0111 0111,0111,0111 0111,0111,	,0011 ,0062 ,0062 ,0001 ,0001 ,0001 ,0001 ,0001 ,0011	A, OfTR, Of A, OfCh, Of A, OfCh, Of A, OfCh, Oc A, OOOh, OC A, OOO	<pre>Ech,, Ech,, Ech,, 00h,, 00h,, 00h,, 00h, 00h, 00h, 01h, 01</pre>	<pre>,0f0h,080h; char 2 ,0f8h,0f8h; char 3 ,080h,000h; char 4 ,000h,000h; char 5 ,000h,000h; char 7 ,000h,000h; char 7 ,000h,000h; char 7 ,000h,000h; char 8</pre>

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defb	002h	number of char increments
1. (1)	00.1	
aeib	uuen	increments
defw	099c2h	Character 1, rotation 2 start address
dofb	006b	number of char increments
uerb	00011 ,	indiaber of char increments
defb	060h,060h,060h,060h,060h ;	increments
defw	0b162h	Character 1, rotation 3 start address
dofb	0025	number of char increments
derb	00211	number of char increments
defb	00ch	increments
deiw	09baah ;	Character 2, rotation 0 start address
defb	003h	number of char increments
-1 - El-	00-h 00Ch	
derp	00Ch,006h	Increments
defw	09971h ;	Character 2, rotation 1 start address
defh	007b	number of char increments
ucito		
deib	006h,006h,0c0h,000h,054h,006h ;	increments
defw	0991ah	Character 2, rotation 2 start address
dofb	001b	number of char increments
derp	00111 ,	number of char increments
defw	09b47h	Character 2, rotation 3 start address
defb	002h	number of char increments
-1 - El-	0105	
derb	01211	Increments
defw	09a31b	Character 3 rotation 0 start address
1 61	0070	
deib	00/h	number of char increments
defb	006h,0c0h,000h,054h,00ch,006h	increments
defu	09910b	Character 3 rotation 1 start address
UCIW	0.551.011	Character S, IUlaciUN I Start address
defb	003h ;	number of char increments
defb	006h.006h	increments
4-5	000705	Chamatan 2 matative 0 starts 12
aeiw	1181 550	Character 3, rotation 2 start address
defb	001h	number of char increments
defin	09ba8b	Character 3 rotation 3 start address
UCIW	0.550011	character 3, Iulacium 3 Start address
defb	002h	number of char increments
defh	012h	increments
acto	01211	Incremented
defw	Oblc6h	Character 4, rotation 0 start address
dofb	0.05b	number of char increments
derp	00511	number of char increments
defb	010h,0ach,00ch,00ch	increments
dofw	0b102b	Character 4 rotation 1 start address
aerw	0.010211	character 4, rotation i start address
defb	005h	number of char increments
defb	004h.008h.008h.0ach	increments
1-5	0-100-	
deiw	100100	character 4, rotation 2 start address
defb	002h	number of char increments
defh	00ch	increments
de fo	011.01	
deiw	UblcUh	Character 4, rotation 3 start address
defb	004h	number of char increments
dofb	Ocob Olch Olch	ingroments
defb	0c0h,00ch,00ch ;	increments
defb	0c0h,00ch,00ch ;	increments
defb defw	0c0h,00ch,00ch	increments Character 5, rotation 0 start address
defb defw	OcOh, OOch	increments Character 5, rotation 0 start address
defb defw defb	0c0h,00ch,00ch ;; 0b1deh ;; 001h ;;	increments Character 5, rotation 0 start address number of char increments
defb defw defb defw	0c0h,00ch ;; 0b1deh ;; 001h ;; 0b11dh ;;	increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address
defb defb defb defb defb	0c0h,00ch,00ch ; 0b1deh ; 001h ; 0b11dh ;	increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments
defb defb defb defb	0c0h,00ch,00ch ;; 0b1deh ;; 001h ;; 0b11dh ;; 004h ;;	increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments
defb defw defb defw defb defb	0c0h,00ch,00ch ;; 0b1deh ;; 001h ;; 0b11dh ;; 004h ;; 0c0h,000h,059h ;;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments</pre>
defb defb defb defb defb defb defb	0c0h,00ch,00ch ;; 0bldeh ;; 001h ;; 0bl1dh ;; 0c0h,000h,059h ;; 0bl1eh ;;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address</pre>
defb defb defb defb defb defb defb	0c0h,00ch,00ch ;; 0b1deh ;; 001h ;; 0b11dh ;; 004h ;; 0c0h,000h,059h ;; 0b11eh ;; 001h ;;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments</pre>
defb defb defb defb defb defb defb	0c0h,00ch,00ch ;; 0b1deh ;; 001h ;; 0b11dh ;; 004h ;; 0c0h,000h,059h ;; 0b11eh ;; 01h ;;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 2 start address</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch ; 0bldeh ; 00lh ; 0bl1dh ; 004h ; 0c0h,000h,059h ; 0bl1eh ; 00lh ; 0bldh ; 0bldh ;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address</pre>
defb defb defb defb defb defb defb defw defb	0c0h,00ch,00ch ;; 0b1deh ;; 001h ;; 0b11dh ;; 004h ;; 0c0h,000h,059h ;; 0b11eh ;; 001h ;; 0b1ddh ;; 002h ;;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch ; 0bldeh ; 001h ; 0bl1dh ; 0c0h,000h,059h ; 0bl1eh ; 001h ; 001h ; 0c0h,000h,059h ; 0bl1eh ; 001h ; 001h ; 0blddh ; 0bldh ; 0blb ; 0blb <td< td=""><td><pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments</pre></td></td<>	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch ;; 0bldeh ;; 00lh ;; 0bl1dh ;; 0bl1dh ;; 0c0h,000h,059h ;; 0bl1eh ;; 001h ;; 001h ;; 001h ;; 001h ;; 0blddh ; 002h ;; 0b8h ;;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch ; 0bldeh ; 001h ; 0bl1dh ; 0c0h,000h,059h ; 0bldh ; 001h ; 001h ; 0c0h,000h,059h ; 0bldeh ; 001h ; 0bldh ; 0bldh ; 0bl8h ;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch,00ch ;; 0b1deh ;; 001h ;; 0b11dh ;; 004h ;; 0c0h,000h,059h ;; 0b11eh ;; 001h ;; 0b1ddh ;; 0b1ddh ;; 02h ;; 08h ;; 09babh ;;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch,00ch ;; 0bldeh ;; 001h ;; 0bl1dh ;; 0c0h,000h,059h ;; 0bl1eh ;; 001h ;; 0blddh ;; 002h ;; 0b8h ;; 09babh ;;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address pumber of char increments</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch ; 0bldeh ; 00lh ; 0bl1dh ; 004h ; 0c0h,000h,059h ; 0bl1dh ; 00lh ; <td><pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments</pre></td>	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch ;; 0bldeh ;; 00lh ;; 0blldh ;; 0blldh ;; 0c0h,000h,059h ;; 0blleh ;; 00lh ;; <	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch ; 0bldeh ; 001h ; 0bl1dh ; 0c0h,000h,059h ; 0c1h ; 0c0h,000h,059h ; 0c1h ; 0bl1dh ; 0blddh ; 0bldh ; 0bl8h ; 09babh ; 00ch,006h ; 0911h ;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch ;; 0bldeh ;; 001h ;; 0bl1dh ;; 004h ;; 0c0h,000h,059h ;; 0bl1eh ;; 001h ;; 001h ;; 001h ;; 002h ;; 002h ;; 003h ;; 002h,006h ;; 003h ;; 003h ;; 003h ;;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch ; 0bldeh ; 001h ; 0bl1dh ; 0c0h,000h,059h ; 0blddh ; 001h ; 001h ; 0blddh ; 0blddh ; 0bldh ; 0bbabh ; 003h ; 003h ; 003h ;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments </pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch ; 0bldeh ; 00lh ; 0bl1dh ; 004h ; 0c0h,000h,059h ; 0bl1eh ; 0bldh ; 0bldh ; 0bldh ; 0bldh ; 0bldh ; 0blabh ; 003h ; 00ch,006h ; 003h ; 006h,006h ;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments</pre>
defb defb defb defb defb defb defb defb	OcOh, OOch, OOch ;; Obldeh ;; OOlh ;; Oblldh ;; OOlh ;; OcOh, OOOh, O59h ;; Oblleh ;; OOlh ;; ODlddh ;; OO2h ;; Obabh ;; OOsh ;; OSH	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch,00ch ; 0bldeh ; 001h ; 0bl1dh ; 004h ; 0c0h,000h,059h ; 0bl1eh ; 001h ; 001h ; 001h ; 001h ; 002h ; 002h ; 008h ; 09babh ; 003h ; 004h,006h ; 002h ;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address </pre>
defb defb defb defb defb defb defb defb	0c0h,00ch ; 0bldeh ; 001h ; 0bl1dh ; 0c0h,000h,059h ; 0c1h ; 0c0h,000h,059h ; 0c1h ; 0c1h ; 0c1h ; 0c1h ; 0c1h ; 0c2h ; 0c2h ; 0cbabh ; 003h ; 003h ; 003h ; 003h ; 006h,006h ; 09911h ; 003h ; 001h ;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch ; 0bldeh ; 001h ; 0bl1dh ; 0c0h,000h,059h ; 0c0h,000h,059h ; 0bl1dh ; 001h ; 0blddh ; 0blddh ; 0bldh ; 0bldh ; 0bldh ; 0bldh ; 0bldh ; 002h ; 003h ; 003h ; 006h,006h ; 0919h ; 001h ; 001h ;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch,00ch ; 0bldeh ; 001h ; 0bl1dh ; 004h ; 0c0h,000h,059h ; 0bl1eh ; 0bl1dh ; 0bl1dh ; 0bldh ; 0bldh ; 002h ; 0b8h ; 003h ; 00ch,006h ; 009j1h ; 006h,006h ; 09j1h ; 001h ; 002h ; 002h ;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch ; 0bldeh ; 001h ; 0bl1dh ; 0c0h,000h,059h ; 0c0h,000h,059h ; 0bldeh ; 001h ; 0bldeh ; 001h ; 0bldeh ; 002h ; 0b8h ; 09babh ; 003h ; 003h ; 003h ; 006h,006h ; 09919h ; 001h ; 002h	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch,00ch ; 0bldeh ; 001h ; 0bl1dh ; 004h ; 0c0h,000h,059h ; 0bl1eh ; 0bl1dh ; 0bl1dh ; 0bldh ; 0bldh ; 0bldh ; 002h ; 0b8h ; 09babh ; 003h ; 003h ; 006h,006h ; 09919h ; 001h ; 09ba7h ; 002h ; 012h ;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 3 start address number of char increments increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments increments</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch,00ch ; 0bldeh ; 001h ; 0bl1dh ; 0c0h,000h,059h ; 0c1h ; 0c1h ; 0c1h ; 0blddh ; 0bldh ; 0bldh ; 0bldh ; 0bldh ; 0bldh ; 002h ; 003h ; 001h ; 002h ; 012h ;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments character 6, rotation 3 start address number of char increments character 6, rotation 3 start address number of char increments increments</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch,00ch ;; 0bldeh ;; 001h ; 0bl1dh ; 004h ; 0c0h,000h,059h ; 0bl1dh ; 0blddh ; 0blddh ; 0bldh ; 0bldh ; 0bldh ; 002h ; 00babh ; 003h ; 003h ; 006h,006h ; 09911h ; 001h ; 09ba7h ; 001h ; 012h ;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 3 start address number of char increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0, start address Number 0, char increments Character 7, rotation 1, start address Number 0, char increments Character 6, rotation 2, start address Number 0, char increments Character 6, rotation 3, start address Number 0, char increments Character 7, rotation 1, start address Number 0, char increments Character 7, rotation 1, start address Number 0, char increments Number 0, char</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch ; 0bldeh ; 001h ; 0bl1dh ; 0c0h,000h,059h ; 0c1h ; 0c0h,000h,059h ; 0bl1dh ; 0bl1dh ; 0bldh ; 0bldh ; 0bldh ; 002h ; 003h ; 003h ; 003h ; 003h ; 003h ; 003h ; 001h ; 002h ; 001h ; 002h ; 001h ; 002h ; 002h ; 012h ;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch ; 0bldeh ; 001h ; 0bl1dh ; 004h ; 0c0h,000h,059h ; 0bl1dh ; 0c1h ; 0blddh ; 0blddh ; 0bldh ; 0bldh ; 0bldh ; 0bldh ; 002h ; 0bbh ; 003h ; 006h,006h ; 0091h ; 001h ; 0919h ; 001h ; 002h ; 002h <td< td=""><td><pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments</pre></td></td<>	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments</pre>
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defb defw defb defb defb defb defb defb defb defb	0c0h,00ch,00ch ;; 0bldeh ;; 001h ;; 0bl1dh ;; 0c0h,000h,059h ;; 0c1h ;; 0c1h ;; 0c1h ;; 0c1h ;; 0c1h ;; 0c1h ;; 0c2h ;; 0c2h ;; 0c2h ;; 0c2h ;; 0c2h ;; 0c2h ;; 0c6h,006h ;; 0c3h ;; 0c6h,006h ;; 0c3h ;; 0c6h,006h ;; 0c2h ;; 0c1h ;; 0c2h ;; 0c0h,0c0h,0c0h,0c0h,0c0h,0c4h,042h,04ch,011h; 0coh,000h,0c0h,0c0h,0c0h,0c4h,042h,00ch,011h; <td><pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address Number 0 f char increments Number 0 f char increm</pre></td>	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address Number 0 f char increments Number 0 f char increm</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch,00ch 0 0bldeh 0 0bl1dh 0 0bl1dh 0 0c0h,000h,059h 0 0bl1eh 0 0blddh 0 0blddh 0 0blddh 0 0bldh 0 0bldh 0 002h 0 0b8h 0 003h 0 003h 0 003h 0 006h,006h 0 09919h 0 001h 0 09919h 0 012h 0 099dbh 0 009h 0	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address Number of char increments increments Character 7, rotation 1 start address Number of char increments increments</pre>
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defb defw defb defb defb defb defb defb defb defb	0c0h,00ch,00ch ;; 0bldeh ;; 001h ;; 0bl1dh ;; 0c0h,000h,059h ;; 0c1h ;; 0c1h ;; 0blddh ;; 0blddh ;; 0blddh ;; 002h ;; 0b8h ;; 003h ;; 003h ;; 002h,006h ;; 09911h ;; 006h,006h ;; 09919h ;; 001h ;; 09919h ;; 0012h ;; 012h ;;	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments</pre>
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defb defb defb defb defb defb defb defb	0c0h,00ch,00ch 0 0bldeh 0 001h 0 0bl1dh 0 0c0h,000h,059h 0 0c1h 0 0blddh 0 0blddh 0 0blddh 0 0bldh 0 0bldh 0 0bldh 0 0bldh 0 002h 0 0blabh 0 003h 0 006h,006h 0 09919h 0 001h 0 09919h 0 002h 0 012h 0 099dbh 0 009h 0 00bh 0 00bh 0 012h,0c0h,0c0h,0c0h,0c4h,0lch,0a4h,0uch,008h	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 6, rotation 1 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch,00ch 0 0bldeh 0 0bl1dh 0 0bl1dh 0 0c0h,000h,059h 0 0bl1dh 0 0bl1dh 0 0bldh 0 0bldh 0 0bldh 0 0bldh 0 0bldh 0 0bldh 0 002h 0 003h 0 003h 0 003h 0 003h 0 003h 0 003h 0 004h 0 005h 0 001h 0 002h 0 012h 0 012h 0 012h 0 002h 0 012h 0 009h 0 0c0h,0c0h,0c0h,0c0h,0c4h,04h,042h,00ch,011h 00bh 0 012h,0c0h,000h,0a6h,01ch,0a4h,04h,00ch,008h 002h 0 012h,0c0h,000h,0a6h,01ch,0a4h,0	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch,00ch 0 0bldeh 0 0bl1dh 0 0bl1dh 0 0c0h,000h,059h 0 0bl1eh 0 0blddh 0 0blddh 0 0blddh 0 0bldh 0 0bldh 0 002h 0 0bbh 0 002h 0 003h 0 006h,006h 0 09919h 0 001h 0 09919h 0 002h	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch,00ch 0 0bldeh 0 001h 0 0bl1dh 0 0c0h,000h,059h 0 0bl1dh 0 001h 0 001h 0 0blddh 0 001h 0 001h 0 002h 0 008h 0 009babh 0 003h 0 003h 0 003h 0 003h 0 003h 0 002h 0 003h 0 002h 0 003h 0 002h 0 002h 0 002h 0 012h 0 02h 0 </td <td><pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments</pre></td>	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch,00ch 0 0bldeh 0 0bl1dh 0 0bl1dh 0 0c0h,000h,059h 0 0c1h 0 0c1h 0 0c1h 0 0blddh 0 0bldh 0 0bldh 0 0ch,006h 0 09babh 0 003h 0 006h,006h 0 09919h 0 001h 0 002h 0 002h 0 004h 0 005h 0 002h	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch,00ch 0 0bldeh 0 001h 0 0bl1dh 0 0c0h,000h,059h 0 0bl1dh 0 0c1h 0 0c2h 0 0c2h 0 0cbabh 0 0coh,006h 0 09911h 0 003h 0 006h,006h 0 09919h 0 001h 0 09ba7h 0 002h 0 012h 0 002h	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch,00ch 0 0bldeh 0 0bl1dh 0 0bl1dh 0 0c0h,000h,059h 0 0c1h 0 0c1h 0 0c1h 0 0blddh 0 0blddh 0 0bldh 0 0bldh 0 0bldh 0 0bldh 0 0bldh 0 0bldh 0 002h 0 0blabh 0 002h 0 0blh 0 002h 0 003h 0 004h,006h 0 002h 0 012h 0 002h 0 012h 0 009dbh 0 009h 0 002h 0 012h 0 009h 0 004h,0c0h,0c0h,0ach,0lch,0lch,0lch,0lch,0lh 004h,0c0h,0c0h,00h,0s4h,0lch,0lch,0ch,0lh 006h,0c0h,0c0h,0s4h,0lch	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch,00ch 0 0bldeh 0 001h 0 0bl1dh 0 0c0h,000h,059h 0 0bl1dh 0 0c1h 0 0c2h 0 0cbabh 0 0c0ch,006h 0 09911h 0 003h 0 006h,006h 0 09911h 0 003h 0 002h 0 01h 0 099dbh 0 002h 0 012h 0 004h,000h,0c0h,0c0h,0c4h,042h,00ch,01h 004h,054h 0 099cfh 0 00fh 0 00fh 0 00fh 0 00fh 0 00fh 0 00fh 0 <t< td=""><td><pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments</pre></td></t<>	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch,00ch 0 0bldeh 0 0bl1dh 0 0bl1dh 0 0c0h,000h,059h 0 0c1h 0 0c1h 0 0blddh 0 0blddh 0 0bldh 0 0bldh 0 0bldh 0 0bldh 0 002h 0 0bbh 0 002h 0 003h 0 003h 0 003h 0 002h 0 001h 0 002h 0 001h 0 002h 0 012h 0 002h 0 012h 0 009dbh 0 002h 0 012h 0 00bh 0 012h,0c0h,0c0h,0c0h,0c4h,0lch,0c4h,0lch,0lch,0lh,0lh 004h,05dh 0 006h,0c0h,000h,054h,00ch,00ch,0ch,0ch 006h,0c0h,000h,054h,00c	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch,00ch 0 0bldeh 0 0bl1dh 0 0c0h,000h,059h 0 0c1h 0 0c2h 0 0ch,006h 0 0g91h 0 003h 0 006h,006h 0 09919h 0 001h 0 0991h 0 002h 0 012h 0 099dbh 0 002h 0 012h 0 00bh 0 012h,0c0h,0c0h,0c0h,0c4h,0c4h,042h,00ch,01h 099cfh 0 00fh,0c0h,0c0h,0s4h,01ch,0a4h,00ch,00ch,00h 00fh 0 00fh 0 00fh 0 00fh 0 00fh 0 00fh 0	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments</pre>
defb defw defb defb defb defb defb defb defb defb	0c0h,00ch,00ch 0 0bldeh 0 0bl1dh 0 0bl1dh 0 0c0h,000h,059h 0 0c1h 0 0c1h 0 0c1h 0 0blddh 0 0c1h 0 0c1h 0 0c1h 0 0c1h 0 0c1h 0 0c2h 0 0c2h 0 0c6h,006h 0 0c2h 0 0c1h 0 0c2h 0 0c1h 0 0c2h 0 0c1h 0 0c2h 0<	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments</pre>
defb defb defb defb defb defb defb defb	0c0h,00ch,00ch 0 0bldeh 0 0bl1dh 0 0bl1dh 0 0c0h,000h,059h 0 0bl1dh 0 0blddh 0 0blddh 0 0blddh 0 0bldh 0 0bldh 0 001h 0 0bldh 0 002h 0 008bh 0 003h 0 006h,006h 0 09919h 0 001h 0 002h 0 002h 0 012h 0 099dbh 0 009h 0 00bh 0 012h 0 004h,0c0h,0c0h,0c0h,0c4h,0c4h,042h,00ch,01h,00h,00h,00h,00h,00h,00h,00h,00h,00	<pre>increments Character 5, rotation 0 start address number of char increments Character 5, rotation 1 start address number of char increments Character 5, rotation 2 start address number of char increments Character 5, rotation 3 start address number of char increments increments Character 6, rotation 0 start address number of char increments increments Character 6, rotation 1 start address number of char increments increments Character 6, rotation 2 start address number of char increments Character 6, rotation 2 start address number of char increments Character 6, rotation 3 start address number of char increments Character 6, rotation 3 start address number of char increments Character 7, rotation 0 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 1 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 2 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments Character 7, rotation 3 start address number of char increments increments</pre>

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defw	0b101h	; Character 8, rotation 0 start address
defb	004h	; number of char increments
defb	00ch,053h,00ch	; increments
defw	0b160h	; Character 8, rotation 1 start address
deib	UU8h A61b A5fb AAch AAch A40b AAch AAch	; number of char increments
delb	0611,0511,0001,0001,0491,0001,0001	; Increments • Character 8 rotation 2 start address
defb	00ab	: number of char increments
defb	010h,04fh,010h,04dh,00ch,00ch,047h,00cl	; increments
defb	00ch	;
defw	0b101h	; Character 8, rotation 3 start address
defb	00ah	; number of char increments
defb	004h,008h,008h,04dh,004h,008h,008h,04bl	h; increments
deib	0610	;
Spare		: spare bytes
defb	Offh,Offh,Offh,Offh,Offh,Offh,Offh,Offh) opare 3,000
defb	Offh, Offh, Offh, Offh, Offh, Offh, Offh, Offh, Offh	h;
defb	Offh,Offh,Offh,Offh,Offh,Offh,Offh,Offh	h;
defb	Offh,Offh,Offh,Offh,Offh,Offh,Offh,Offh	h;
defb	Offh, Offh, Offh, Offh, Offh, Offh, Offh, Offh	h;
deib	Offh Offh Offh Offh Offh Offh Offh Offh	n;
defb	Offh.Offh.Offh.Offh.Offh	:
4010	01211, 01111, 01111, 01111, 01111	,
Spectrum:		
defb		0f3h,0afh,011h,0ffh,0ffh,0c3h,0cbh,011h;
defb	02ah, 05dh, 05ch, 022h, 05fh, 05ch, 018h, 043h	h, Uc3h, Of2h, O15h, Offh, Offh, Offh, Offh, Offh;
defb	Uzan, U5dh, U5ch, U7eh, Ucdh, U7dh, U00h, 0d0	n,UCAN,U/4h,UUUh,UI8h,UI/h,UIIh,UIIh,UIIh; h Qa5h Q2ah Q61h Q5ah Qa5h Qa2h QQah Q16h.
defb	0f5h.0e5h.02ah.078h.05ch 023h 022h 078l	h,05ch,07ch,0b5h,020h,003h,0fdh.034b_040b.
defb	0c5h,0d5h,0cdh,0bfh,002h,0d1h,0c1h,0e1	h,0f1h,0fbh,0c9h,0e1h,06eh,0fdh,075h,000h;
defb	0edh,07bh,03dh,05ch,0c3h,0c5h,016h,0ffl	h,Offh,Offh,Offh,Offh,Offh,Offh,Of5h,Oe5h;
defb	02ah,0b0h,05ch,07ch,0b5h,020h,001h,0e9	h,0e1h,0f1h,0edh,045h,02ah,05dh,05ch,023h;
defb	022h,05dh,05ch,07eh,0c9h,0feh,021h,0d0l	h,Ofeh,OOdh,Oc8h,Ofeh,O10h,Od8h,Ofeh,O18h;
defb	03fh,0d8h,023h,0feh,016h,038h,001h,023	h,037h,022h,05dh,05ch,0c9h,0bfh,052h,04eh;
deib	052h 042h 052h 045h 045h 045h 045h 041l	n,UC9n,U46n,UCen,U5Un,U41n,U49n,U4en,Ud4n;
defb	056h.041h.04ch.044h.043h.04fh.044h.065h	h,056h,041h,0cch,04ch,045h,0ceh,053h,049h;
defb	Oceh, 043h, 04fh, 0d3h, 054h, 041h, 0ceh, 041h	h,053h,0ceh,041h,043h,0d3h,041h,054h,0ceh;
defb	04ch,0ceh,045h,058h,0d0h,049h,04eh,0d4	h,053h,051h,0d2h,053h,047h,0ceh,041h,042h;
defb	0d3h,050h,045h,045h,0cbh,049h,0ceh,0551	h,053h,0d2h,053h,054h,052h,0a4h,043h,048h;
defb	052h,0a4h,04eh,04fh,0d4h,042h,049h,0cel	h,04fh,0d2h,041h,04eh,0c4h,03ch,0bdh,03eh;
deib	Ubdh, U3ch, Ubeh, U4ch, U49h, U4eh, Uc5h, U54	n,048n,045n,0cen,054n,0cin,053n,054n,045n;
defb	04dh, 04fh, 056h, 0c5h, 045h, 052h, 041h, 053h	h, Oc5h, O4fh, O50h, O45h, O4eh, O20h, O4in, O4in, Od4n;
defb	04ch, 04fh, 053h, 045h, 020h, 0a3h, 04dh, 045h	h,052h,047h,0c5h,056h,045h,052h,049h,046h;
defb	0d9h,042h,045h,045h,0d0h,043h,049h,0521	h,043h,04ch,0c5h,049h,04eh,0cbh,050h,041h;
defb	050h,045h,0d2h,046h,04ch,041h,053h,0c8l	h,042h,052h,049h,047h,048h,0d4h,049h,04eh;
defb	056h,045h,052h,053h,0c5h,04fh,056h,045h	h,0d2h,04fh,055h,0d4h,04ch,050h,052h,049h;
deib	041h 054h 052h 045h 052h 053h,034h,053h	n,054n,04in,0d0n,052n,045n,041n,0c4n,044n;
defb	044h.045h.0d2h.043h.04fh.04eh.054h.049l	h,042h,025h,049h,045h,047h,042h,042h,041h,052h;
defb	0cdh,046h,04fh,0d2h,047h,04fh,020h,054	h, Ocfh, O47h, O4fh, O20h, O53h, O55h, Oc2h, O49h;
defb	04eh,050h,055h,0d4h,04ch,04fh,041h,0c4l	h,04ch,049h,053h,0d4h,04ch,045h,0d4h,050h;
defb	041h,055h,053h,0c5h,04eh,045h,058h,0d41	h,050h,04fh,04bh,0c5h,050h,052h,049h,04eh;
defb	0d4h,050h,04ch,04fh,0d4h,052h,055h,0cel	h,053h,041h,056h,0c5h,052h,041h,04eh,044h;
delb	041h,04dh,049h,05ah,0c5h,049h,0c6h,043h	n,04Cn,0aSn,044n,052n,041n,0a7n,04Sn,04Cn; b Oceb 043b 04fb 050b 049b 042b 048b 059b.
defb	036h,035h,054h,047h,056h,04eh,04ah,055	h,037h,034h,052h,046h,043h,04dh,04bh,049h;
defb	038h,033h,045h,044h,058h,00eh,04ch,04fl	h,039h,032h,057h,053h,05ah,020h,00dh,050h;
defb	030h,031h,051h,041h,0e3h,0c4h,0e0h,0e4h	h,0b4h,0bch,0bdh,0bbh,0afh,0b0h,0b1h,0c0h;
defb	0a7h,0a6h,0beh,0adh,0b2h,0bah,0e5h,0a51	h,0c2h,0e1h,0b3h,0b9h,0c1h,0b8h,07eh,0dch;
defb	0dah,05ch,0b7h,07bh,07dh,0d8h,0bfh,0ael	h,0aah,0abh,0ddh,0deh,0dfh,07fh,0b5h,0d6h;
delb	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	h,002n,007n,008n,004n,003n,008n,008n,008n;
defb	03bh,022h,0c7h,03ch,0c3h,03eh,0c5h,02fl	h, 0c9h, 060h, 0c6h, 03ah, 0d0h, 0ceh, 0a8h, 0cah;
defb	0d3h,0d4h,0d1h,0d2h,0a9h,0cfh,02eh,02fl	h,011h,0ffh,0ffh,001h,0feh,0feh,0edh,078h;
defb	02fh,0e6h,01fh,028h,00eh,067h,07dh,014	h,0c0h,0d6h,008h,0cbh,03ch,030h,0fah,053h;
defb	05fh,020h,0f4h,02dh,0cbh,000h,038h,0e6l	h,07ah,03ch,0c8h,0feh,028h,0c8h,0feh,019h;
defb	Uc8h,07bh,05ah,057h,0feh,018h,0c9h,0cdl	n,08en,002h,0c0h,021h,000h,05ch,0cbh,07eh;
deib dafh	Ocdh.01eh.003b 0d0b 021b 000b 05cb 0bcl	n,orrn,o/an,ozrn,oo4n,OSCN,ODAN,OZON,OEEN; h.028h.02eh.0ehh.021h.004b 05ch 0beb 028b•
defb	027h, 0cbh, 07eh, 020h, 004h, 0ebh, 0cbh, 07el	h, 0c8h, 05fh, 077h, 023h, 036h, 005h, 023h, 03ah;
defb	009h,05ch,077h,023h,0fdh,04eh,007h,0fdl	h,056h,001h,0e5h,0cdh,033h,003h,0e1h,077h;
defb	032h,008h,05ch,0fdh,0cbh,001h,0eeh,0c9	h,023h,036h,005h,023h,035h,0c0h,03ah,00ah;
defb	05ch,077h,023h,07eh,018h,0eah,042h,016h	h,000h,07bh,0feh,027h,0d0h,0feh,018h,020h;
deib	003n,0CDn,078h,0C0h,021h,005h,002h,019	n,u/en,u3/n,uC9n,u/pn,U1eh,U3ah,U38h,U21h; b Ac9b A21b Aebb AA1b AA20b AA3b A31b,
defb	005h,002h,016h.000h.019h.07eh.0c9h.0211	h,029h,002h,0cbh,040h,028h.0f4h.0cbh.05ah:
defb	028h,00ah,0fdh,0cbh,030h,05eh,0c0h,004	h, OcOh, Oc6h, O2Oh, Oc9h, Oc6h, Oa5h, Oc9h, Ofeh;
defb	030h,0d8h,00dh,0fah,09dh,003h,020h,019	h,021h,054h,002h,0cbh,068h,028h,0d3h,0feh;
defb	038h,030h,007h,0d6h,020h,004h,0c8h,0c6h	h,008h,0c9h,0d6h,036h,004h,0c8h,0c6h,0feh;
defb	Uc9h,021h,030h,002h,0feh,039h,028h,0bal	h,Uieh,U30h,O28h,Ob6h,Oe6h,O07h,Oc6h,O80h;

1. 01		
aeib	004n,028n,0een,001n,029n,004n,028n,02bn,088n,021n,030n,002n,020n,0a4n,0a6n,010n;	
defb	0feh,022h,028h,006h,0feh,020h,0c0h,03eh,05fh,0c9h,03eh,040h,0c9h,0f3h,07dh,0cbh;	
defb	03dh.0cbh.03dh.02fh.0e6h.003h.04fh.006h.000h.0ddh.021h.0d1h.003h.0ddh.009h.03ah:	
dofb		
uerb		
deib	0fdh,00eh,03fh,005h,0c2h,0d6h,003h,0eeh,010h,0d3h,0feh,044h,04fh,0cbh,067h,020h;	
defb	009h,07ah,0b3h,028h,009h,079h,04dh,01bh,0ddh,0e9h,04dh,00ch,0ddh,0e9h,0fbh,0c9h;	
defb	0efh,031h,027h,0c0h,003h,034h,0ech,06ch,098h,01fh,0f5h,004h,0a1h,00fh,038h,021h;	
defb	0925 05c5 07e5 0=75 0205 05e5 0235 04e5 0235 0465 0785 0175 09f5 0595 0205 0545	
derb		
deib	023n,0ben,020n,050n,078n,0c6n,03cn,0f2n,025n,004n,0e2n,06cn,004n,006n,0fan,004n;	
defb	0d6h,00ch,030h,0fbh,0c6h,00ch,0c5h,021h,06eh,004h,0cdh,006h,034h,0cdh,0b4h,033h;	
defb	0efh,004h,038h,0f1h,086h,077h,0efh,0c0h,002h,031h,038h,0cdh,094h,01eh,0feh,00bh;	
defb	030b 022b 0efb 0e0b 004b 0e0b 034b 080b 043b 055b 09fb 080b 001b 005b 034b 035b	
de fb		
delb	0/11,005n,058n,0Can,099n,01en,0C5n,0Can,099n,01en,0E1n,050n,059n,07an,0D5n,0C8n;	
defb	01bh,0c3h,0b5h,003h,0cfh,00ah,089h,002h,0d0h,012h,086h,089h,00ah,097h,060h,075h;	
defb	089h,012h,0d5h,017h,01fh,089h,01bh,090h,041h,002h,089h,024h,0d0h,053h,0cah,089h;	
defb	02eb.09db.036b.0b1b.089b.038b.0ffb.049b.03eb.089b.043b.0ffb.06ab.073b.089b.04fb:	
dofb		
derb		
deib	010h,005h,0cdh,0fbh,024h,03ah,03bh,05ch,087h,0fah,08ah,01ch,0e1h,0d0h,0e5h,0cdh;	
defb	0f1h,02bh,062h,06bh,00dh,0f8h,009h,0cbh,0feh,0c9h,021h,03fh,005h,0e5h,021h,080h;	
defb	01fh,0cbh,07fh,028h,003h,021h,098h,00ch,008h,013h,0ddh,02bh,0f3h,03eh,002h,047h;	
defb	010b 0feb 0d3b 0feb 0eeb 00fb 006b 0a4b 02db 020b 0f5b 005b 025b 0f2b 0d8b 004b	
de fie		
derp	008n,02in,010n,01en,003n,01en,03en,00an,008n,037n,010n,01en,003n,01en,001n,00en;	
defb	03bh,008h,06fh,0c3h,007h,005h,07ah,0b3h,028h,00ch,0ddh,06eh,000h,07ch,0adh,067h;	
defb	03eh,001h,037h,0c3h,025h,005h,06ch,018h,0f4h,079h,0cbh,078h,010h,0feh,030h,004h;	
defb	006h,042h,010h,0feh,0d3h,0feh,006h,03eh,020h.0efh.005h.0afh.03ch.0cbh.015h.0c2h:	
dofb	014b 005b 01bb 0ddb 023b 006b 031b 03ab 07fb 0dbb 0fab 01fb 0d0b 07ab 0acb 0acb	
UEID		
aeib	oren, ouen, ouen, ospn, oron, oren,	
defb	Ud3h,Uteh,U3eh,O7fh,Odbh,Ofeh,O1fh,Ofbh,O38h,O02h,Ocfh,O0ch,Of1h,Oc9h,O14h,O08h;	
defb	015h,0f3h,03eh,00fh,0d3h,0feh,021h,03fh,005h,0e5h,0dbh,0feh,01fh,0e6h,020h,0f6h;	
defb	002h.04fh.0bfh.0c0h.0cdh.0e7h.005h.030h.0fah.021h.015h.004h.010h.0feh.02bb.07cb.	
dofb	0bb 020b 0f0b 0adb 0adb 03b 030b 030b 0abb 064b 0adb 0adb 0adb 0adb 0adb 0adb 0adb 0ad	
derb		
defb	ucon,uzon,usun,ueun,uz4n,uzun,u±1h,UU6h,Uc9h,Ucdh,Ue7h,005h,030h,Od5h,078h,Ofeh;	
defb	0d4h,030h,0f4h,0cdh,0e7h,005h,0d0h,079h,0eeh,003h,04fh,026h,000h,006h,0b0h,018h;	
defb	01fh,008h,020h,007h,030h,00fh,0ddh,075h,000h,018h,00fh,0cbh,011h,0adh,0c0h,079h;	
defb	01fh.04fh.013h.018h.007h.0ddh.07eh.000h.0adh.0c0h.0ddh.023h.01bh.008h.006h.0b2h:	
dofb		
derb		
deib	0/cn, 0adn, 06/n, 0/an, 0b3n, 020n, 0can, 0/cn, 0fen, 00in, 0c9n, 0can, 0e/n, 005n, 0aun, 0sen;	
deib	016h,03dh,020h,0fdh,0a7h,004h,0c8h,03eh,07fh,0dbh,0feh,01fh,0d0h,0a9h,0e6h,020h;	
defb	028h,0f3h,079h,02fh,04fh,0e6h,007h,0f6h,008h,0d3h,0feh,037h,0c9h,0f1h,03ah,074h;	
defb	05ch,0d6h,0e0h,032h,074h,05ch,0cdh,08ch,01ch,0cdh,030h,025h,028h,03ch,001h,011h;	
defb	000h.03ah.074h.05ch.0a7h.028h.002h.00eh.022h.0f7h.0d5h.0ddh.0e1h.006h.00bh.03eh:	
dofb	020b 012b 013b 010b 0fcb 0ddb 036b 001b 0ffb 0cdb 0f1b 02bb 021b 0f6b 0fbb 00bb;	
de fb		
delb	0091,0031,0301,0011,03a1,0741,03C1,0371,0201,0021,00211,00211,00211,0231,00311,0231,00311	
defb	001h,00ah,000h,0ddh,0e5h,0e1h,023h,0ebh,0edh,0b0h,0dfh,0feh,0e4h,020h,049h,03ah;	
defb	074h,05ch,0feh,003h,0cah,08ah,01ch,0e7h,0cdh,0b2h,028h,0cbh,0f9h,030h,00bh,021h;	
defb	000h,000h,03ah,074h,05ch,03dh,028h,015h,0cfh,001h,0c2h,08ah,01ch,0cdh,030h,025h;	
defb	028h.018h.023h.07eh.0ddh.077h.00bh.023h.07eh.0ddh.077h.00ch.023h.0ddh.071h.00eh:	
defb	03eb 001b 0cbb 071b 028b 001b 03cb 0ddb 077b 000b 0ebb 0e7b 0feb 020b 020b 0deb.	
uerb		
deib	Ue/n, Ucan, Ueen, Uibn, Uebn, Ucan, USan, UU/n, Uien, Uaan, U2Un, Uiin, U3an, U/4n, Usch, Uien;	
defb	003h,0cah,08ah,01ch,0e7h,0cdh,0eeh,01bh,0ddh,036h,00bh,000h,0ddh,036h,00ch,01bh;	
defb	021h,000h,040h,0ddh,075h,00dh,0ddh,074h,00eh,018h,04dh,0feh,0afh,020h,04fh,03ah;	
defb	074h,05ch,0feh,003h,0cah,08ah,01ch,0e7h,0cdh,048h,020h,020h,00ch,03ah,074h,05ch;	
defb	0a7h 0cah 08ah 01ch 0cdh 0e6h 01ch 018h 00fh 0cdh 082h 01ch 0dfh 0feh 02ch 028h.	
de fie		
delb	00ch, 03an, 0/4n, 05ch, 0a/n, 0can, 08an, 01ch, 0can, 0e8n, 01ch, 018n, 004n, 0e/n, 0can, 082n;	
deib	uicn, ucan, ueen, Uibn, Ucan, U99n, Uien, Udan, U/lh, U0bh, Udah, U/Uh, U0ch, Ucah, U99h, Oleh;	
defb	0ddh,071h,00dh,0ddh,070h,00eh,060h,069h,0ddh,036h,000h,003h,018h,044h,0feh,0cah;	
defb	028h,009h,0cdh,0eeh,01bh,0ddh,036h,00eh,080h,018h,017h,03ah,074h,05ch,0a7h,0c2h;	
defh	08ah,01ch,0e7h,0cdh,082h,01ch,0cdh.0eeh.01bh.0cdh.099h.01eh.0ddh.071h.00dh.0ddb.	
dofh	070b 00ab 0ddb 036b 000b 000b 02ab 050b 05ab 0adb 05bb 05bb 05bb 05bb 05bb 05cb 07b 06cb 05bb	
dern	adde orte obe obe obe obe obe obe obe obe obe ob	
deid	otan, o'sn, oban, otan, o'an, o'an, o'an, o'an, o'scn, o'an, o'scn, o'an, o'sn, o'un, o'an, o'an, o'an, o'an, o	
deib	uiun, uepn, usan, U/4n, Usch, Ua/h, Ucah, U/Uh, UU9h, Ue5h, UU1h, U11h, UU0h, Uddh, U09h, Oddh;	
defb	Ue5h,U11h,O11h,O00h,Oafh,O37h,Ocdh,O56h,O05h,Oddh,Oe1h,O30h,Of2h,O3eh,Ofeh,Ocdh;	
defb	001h,016h,05dh,036h,052h,003h,00eh,080h,0ddh,07eh,000h,0ddh,0beh,0efh,020h,002h;	
defb	00eh,0f6h,0feh,004h,030h,0d9h,011h,0c0h,009h.0c5h.0cdh.00ah.00ch.0c1h.0ddh.0e5h:	
defb	0d1b.021b.0f0b.0ffb.019b.006b.00ab.07ab.03cb.020b.003b.079b.080b.04fb.013b.01ab.	
detD	Obb (23b) (20b) (01b) (0.05b) (0.10b) (0.10b) (0.6cb) (0.5cb) (0.2cb) (0.05b) (0.1cb) (0.4cb)	
aeib	oben, uzan, uzun, uurn, uurn, uurn, urun, urun, urun, uzun, uzun, uarn, uurn, ua/h, uelh;	
defb	uaan,u/en,UUUn,UIEn,UU3n,UZ8n,UUCh,U3ah,U74h,U5Ch,U3dh,OCah,O08h,O08h,Ofeh,O02h;	
defb	0cah,0b6h,008h,0e5h,0ddh,06eh,0fah,0ddh,066h,0fbh,0ddh,05eh,00bh,0ddh,056h,00ch;	
defb	07ch,0b5h,028h,00dh,0edh,052h,038h,026h,028h,007h,0ddh,07eh,000h,0feh,003h,020h;	
defb	01dh.0e1h.07ch.0b5h.020h.006h.0ddh.06eh.00dh.0ddh.066h.00eh.0e5h.0ddh.0e1h.03ab.	
dofb	174h 05ch 0feb 002b 037b 020b 001b 002b 03ch 0feb 0cdb 05ch 0deb 0cfb 0ch	
UETD		
aeib	udan, usen, uush, udan, usen, uush, uesh, u/ch, ussh, uzuh, uush, ulsh, ulsh, ulsh, ulsh, ulsh, ulsh, ulsh,	
defb	UUch,Uddh,U6eh,Ofah,Oddh,O66h,Ofbh,Oebh,O37h,Oedh,O52h,O38h,O09h,O11h,O05h,O00h;	
defb	019h,044h,04dh,0cdh,005h,01fh,0e1h,0ddh,07eh,000h,0a7h,028h,03eh,07ch,0b5h,028h;	
defb	013h,02bh,046h,02bh,04eh,02bh,003h,003h,003h,0ddh,022h.05fh.05ch.0cdh.0e8h.019h:	
defb	0ddb.02ab.05fb.05cb.02ab.05gb.05cb.02bb.0ddb.04eb.00bb.0ddb.046b.00cb.0c5b.003b.	
GETD		
aeib	0051, 0051, 0051, 0151, 0151, 0151, 0151, 0151, 0151, 0151, 0151, 0171, 0171, 0151, 0131,	
defb	u/zn, u2sn, Uesn, Udan, Uein, U3/h, U3eh, Uith, Uc3h, UU2h, UU8h, Oebh, O2ah, O59h, O5ch, O2bh;	
defb	0ddh,022h,05fh,05ch,0ddh,04eh,00bh,0ddh,046h,00ch,0c5h,0cdh,0e5h,019h,0c1h,0e5h;	
defb	0c5h,0cdh,055h,016h,0ddh,02ah,05fh,05ch,023h,0ddh,04eh,00fh,0ddh,046h,010h,009h;	
defb	022h.04bh.05ch.0ddh.066h.00eh.07ch.0e6h.0c0h.020h.00ah.0ddh.06eh.00dh.022h.042h.	
dofb	15ch Ofdh 036h 00ah 000h 0dh 0ddh 0ddh 037h 03ah 0ffh 0ash 002h 008h 0ddh 0ddh 0dah	
- EL		
aisu	oobn, oaan, okon, occh, occh, occh, or /n, ocon, okon, ok	
defb	03eh,0ffh,0cdh,002h,008h,0e1h,0edh,05bh,053h,05ch,07eh,0e6h,0c0h,020h,019h,01ah;	

defb	0e1h.018h.0ech.0cdh.02ch.009h.018h.0e2h.07eh.04fh.0feh.080h.0c8h.0e5h.02ah.04bh;
dofb	
uerb	
deib	010h,0e6h,0e0h,01eh,0a0h,020h,012h,0d1h,0d5h,0e5h,023h,013h,01ah,0beh,020h,006h;
defb	017h,030h,0f7h,0e1h,018h,003h,0e1h,018h,0e0h,03eh,0ffh,0d1h,0ebh,03ch,037h,0cdh;
defb	02ch,009h,018h,0c4h,020h,010h,008h,022h,05fh,05ch,0ebh,0cdh,0b8h,019h,0cdh,0e8h;
defb	019h, 0ebh, 02ah, 05fh, 05ch, 008h, 008h, 0d5h, 0cdh, 0h8h, 019h, 022h, 05fh, 05ch, 02ah, 053h;
dofb	
uerb	
deib	U23h,UCIh,UdIh,Uedh,U53h,U53h,U5ch,Uedh,U5bh,U5th,U5ch,Uc5h,Ud5h,Uebh,Uedh,UbUh;
defb	0e1h,0c1h,0d5h,0cdh,0e8h,019h,0d1h,0c9h,0e5h,03eh,0fdh,0cdh,001h,016h,0afh,011h;
defb	0alh,009h,0cdh,00ah,00ch,0fdh,0cbh,002h,0eeh,0cdh,0d4h,015h,0ddh,0e5h,011h,011h;
defh	000b 0afb 0cdb 0c2b 004b 0ddb 0e1b 006b 032b 076b 010b 0fdb 0ddb 05eb 00bb 0ddb
dofb	
derb	
deib	0/4n,06in,0/0n,065n,02cn,020n,0/4n,068n,065n,06en,020n,0/0n,0/2n,065n,0/3n,0/3n;
defb	020h,061h,06eh,079h,020h,06bh,065h,079h,0aeh,00dh,050h,072h,06fh,067h,072h,061h;
defb	06dh,03ah,0a0h,00dh,04eh,075h,06dh,062h,065h,072h,020h,061h,072h,072h,061h,079h;
defb	03ah,0a0h,00dh,043h,068h,061h,072h,061h,063h,074h,065h,072h,020h,061h,072h,072h;
defb	061b.079b.03ab.0a0b.00db.042b.079b.074b.065b.073b.03ab.0a0b.0cdb.003b.00bb.0feb:
dofb	
uerb	
deib	016n,000n,019n,05en,019n,0e5n,0c3n,003n,00bn,04en,05/n,010n,029n,054n,053n,052n;
defb	037h,050h,04fh,05fh,05eh,05dh,05ch,05bh,05ah,054h,053h,00ch,03eh,022h,0b9h,020h;
defb	011h,0fdh,0cbh,001h,04eh,020h,009h,004h,00eh,002h,03eh,018h,0b8h,020h,003h,005h;
defb	00eh,021h,0c3h,0d9h,00dh,03ah,091h,05ch,0f5h,0fdh,036h,057h,001h,03eh,020h,0cdh;
defb	065h,00bh,0f1h,032h,091h,05ch,0c9h,0fdh,0chh,001h,04eh,0c2h,0cdh,00eh,00eh,021h;
dofb	
derb	
deib	Usan, Usen, Usen, Usan, Usan, Usan, Usan, Usan, Usan, Usan, Usan, Usan, Uban, Ulan, Udan, Udan;
deib	018h,003h,011h,087h,00ah,032h,00eh,05ch,02ah,051h,05ch,073h,023h,072h,0c9h,011h;
defb	0f4h,009h,0cdh,080h,00ah,02ah,00eh,05ch,057h,07dh,0feh,016h,0dah,011h,022h,020h;
defb	029h,044h,04ah,03eh,01fh,091h,038h,00ch,0c6h,002h,04fh,0fdh,0cbh,001h,04eh,020h;
defb	016h,03eh,016h,090h,0dah,09fh,01eh,03ch,047h,004h,0fdh,0cbh,002h,046h,0c2h,055h;
defb	Ouch Ofdh Obeh 031h 0dah 086h 00ch 0c3h 0d9h 00dh 07ch 0cdh 003h 00hh 081h 03dh.
derb defb	
delb	Jeen, Jiin, Jean, Jin, Jian, Jean, John, Jean, Jeen, Jeen, Jean, J
deib	0c9h,0cdh,024h,00bh,0fdh,0cbh,001h,04eh,020h,01ah,0fdh,0cbh,002h,046h,020h,008h;
defb	0edh,043h,088h,05ch,022h,084h,05ch,0c9h,0edh,043h,08ah,05ch,0edh,043h,082h,05ch;
defb	022h,086h,05ch,0c9h,0fdh,071h,045h,022h,080h,05ch,0c9h,0fdh,0cbh,001h,04eh,020h;
defb	014h,0edh,04bh,088h,05ch,02ah,084h,05ch,0fdh,0cbh,002h,046h,0c8h,0edh,04bh,08ah;
defb	05cb 02ab 086b 05cb 0c9b 0fdb 04eb 045b 02ab 080b 05cb 0c9b 0feb 080b 038b 03db.
defb	
derb	
deib	U21n, U92n, U5ch, Ucdh, U3en, UUbh, Ucbh, U18h, U9fh, Ue6h, U0fh, U4fh, Ucbh, U18h, U9fh, Ue6h;
defb	0f0h,0b1h,00eh,004h,077h,023h,00dh,020h,0fbh,0c9h,0d6h,0a5h,030h,009h,0c6h,015h;
defb	0c5h,0edh,04bh,07bh,05ch,018h,00bh,0cdh,010h,00ch,0c3h,003h,00bh,0c5h,0edh,04bh;
defb	036h,05ch,0ebh,021h,03bh,05ch,0cbh,086h,0feh,020h,020h,002h,0cbh,0c6h,026h,000h;
defb	06fh.029h.029h.029h.009h.0c1h.0ebh.079h.03dh.03eh.021h.020h.00eh.005h.04fh.0fdh:
defb	Corb 001b 04eb 028b 006b 0d5b 0cdb 0cdb 00eb 0d1b 079b 0b9b 0d5b 0ccb 055b 00cb
de fb	
delb	Udin, Udsh, Udsh, Usin, Usin, Usin, Utin, Utin, Utin, Usin, Udin, Utin, Utin, Utin, Utin, Utin, Udin;
deib	03eh,008h,0a/h,0fdh,0cbh,001h,04eh,028h,005h,0fdh,0cbh,030h,0ceh,03/h,0ebh,008h;
defb	01ah,0a0h,0aeh,0a9h,012h,008h,038h,013h,014h,023h,03dh,020h,0f2h,0ebh,025h,0fdh;
defb	0cbh,001h,04eh,0cch,0dbh,00bh,0e1h,0c1h,00dh,023h,0c9h,008h,03eh,020h,083h,05fh;
defb	008h,018h,0e6h,07ch,00fh,00fh,00fh,0e6h,003h,0f6h,058h,067h,0edh,05bh,08fh,05ch;
defb	07eb 0abb 0a2b 0abb 0fdb 0cbb 057b 076b 028b 008b 0a6b 0c7b 0cbb 057b 020b 002b.
defb	
derb	
deib	0//h,0c9h,0e5h,026h,000h,0e3h,018h,004h,011h,095h,000h,0f5h,0cdh,041h,00ch,038h;
defb	009h,03eh,020h,0fdh,0cbh,001h,046h,0cch,03bh,00ch,01ah,0e6h,07fh,0cdh,03bh,00ch;
defb	01ah,013h,087h,030h,0f5h,0d1h,0feh,048h,028h,003h,0feh,082h,0d8h,07ah,0feh,003h;
defb	0d8h,03eh,020h,0d5h,0d9h,0d7h,0d9h,0d1h,0c9h,0f5h,0ebh,03ch,0cbh,07eh,023h,028h;
defb	0fbh,03dh,020h,0f8h,0ebh,0f1h,0feh,020h,0d8h,01ah,0d6h,041h,0c9h,0fdh,0cbh,001h;
defb	04eb 0c0b 011b 0d9b 00db 0d5b 078b 0fdb 0cbb 002b 046b 0c2b 002b 00db 0fdb 0beb
dofb	
derb	
deib	03en, 000n, 0can, 001n, 016n, 0ean, 0/pn, 031n, 05cn, 01an, 0cpn, 002n, 0a6n, 0c9n, 0c1n, 004n;
deib	0fdh,035h,052h,020h,045h,03eh,018h,090h,032h,08ch,05ch,02ah,08fh,05ch,0e5h,03ah;
defb	091h,05ch,0f5h,03eh,0fdh,0cdh,001h,016h,0afh,011h,0f8h,00ch,0cdh,00ah,00ch,0fdh;
defb	0cbh,002h,0eeh,021h,03bh,05ch,0cbh,0deh,0cbh,0aeh,0d9h,0cdh,0d4h,015h,0d9h,0feh;
defb	020h,028h,045h,0feh,0e2h,028h,041h,0f6h,020h,0feh,06eh,028h,03bh,03eh,0feh,0cdh;
defb	001h.016h.0f1h.032h.091h.05ch.0e1h.022h.08fh.05ch.0cdh.0feh.00dh.0fdh.046h.031h:
defb	004b 00eb 021b 0c5b 0cdb 09bb 00eb 07cb 00fb 00fb 00fb 0e6b 003b 0f6b 058b 067b.
dofb	
derb	
deib	080h, 0/3h, 063h, 0/2h, 06fh, 06ch, 06ch, 06fh, 0cfh, 00ch, 0feh, 002h, 038h, 080h, 0fdh, 086h;
deib	031h,0d6h,019h,0d0h,0edh,044h,0c5h,047h,02ah,08fh,05ch,0e5h,02ah,091h,05ch,0e5h;
defb	0cdh,04dh,00dh,078h,0f5h,021h,06bh,05ch,046h,078h,03ch,077h,021h,089h,05ch,0beh;
defb	038h,003h,034h,006h,018h,0cdh,000h,00eh,0f1h,03dh,020h,0e8h,0e1h,0fdh,075h,057h;
defb	0e1h,022h,08fh,05ch,0edh,04bh,088h,05ch,0fdh,0cbh.002h.086h.0cdh.0d9h.00dh.0fdh:
defb	0cbh.002h.0c6h.0c1h.0c9h.0afh.02ah.08dh.05ch.0fdh.0cbh.002h.046h.028b.004h.067h.
dofh	frah Geb Oleh Oleh Oleh Osch Osch Osch Osch Osch Oleh Oleh Oleh Oleh Oleh Osch Osch Osch
	Arch of the second of the seco
aeib	vaen, v//n, vcsn, vcan, vain, vvan, v2in, v3cn, v5cn, vcsn, vcan, vcbn, vcbn, vcdn, v4dn, vvan,
deib	UIAN, U46N, U3IN, UCAN, U44N, UUeN, U2IN, UCUN, U5AN, 03AN, 08AH, 05CN, 005N, 018N, 007N, 00eh;
defb	020h,02bh,077h,00dh,020h,0fbh,010h,0f7h,0fdh,036h,031h,002h,03eh,0fdh,0cdh,001h;
defb	016h,02ah,051h,05ch,011h,0f4h,009h,0a7h,073h,023h,072h,023h,011h,0a8h,010h,03fh;
defb	038h,0f6h,001h,021h,017h,018h,02ah,021h,000h,000h,022h.07dh.05ch.0fdh.0cbh.030h:
defb	086b, 0cdb, 094b, 00db, 03eb, 0feb, 0cdb, 001b, 016b, 0cdb, 04db, 006b, 018b, 0cdb, 044b
defb	00eb 02ab 051b 05cb 011b 0f4b 000b 073b 023b 073b 064b 03cb 052b 001b 001b 021b.
dof	
aeib	Ulon, Ulin, UUUn, USDn, UIDn, UCDn, UULn, U4en, Ulin, Ulin, Ulin, U/8n, UIDn, UCDn, UUln, U4en, 028h;
defb	UUSn,UIAN,U86h,U31h,UA6h,U18h,UCSh,O47h,Ocdh,O9bh,O0eh,Oc1h,O3eh,O21h,O91h,O5fh;
defb	016h,000h,019h,0c3h,0dch,00ah,006h,017h,0cdh,09bh,00eh,00eh,008h,0c5h,0e5h,078h;
defb	0e6h,007h,078h,020h,00ch,0ebh,021h,0e0h,0f8h,019h,0ebh,001h,020h,000h,03dh,0edh;
defb	0b0h,0ebh,021h,0e0h,0ffh,019h,0ebh,047h,0e6h,007h,00fh,00fh,00fh,04fh,078h,006h;
defb	000h,0edh,0b0h,006h,007h,009h,0e6h,0f8h,020h,0dbh,0e1h,024h.0c1h.00dh.020h.0cdh:
-	

dofb	Ordb 088b 00ab 021b 0a0b 0ffb 010b 0abb 0adb 0b0b 006b 001b 0a5b 0adb 00bb 00ab.	
derp		
defb	00eh,008h,0c5h,0e5h,078h,0e6h,007h,00fh,00fh,00fh,04fh,078h,006h,000h,00dh,054h;	
dofb	05db 036b 000b 013b 0adb 0b0b 011b 001b 007b 010b 03db 0a6b 0f8b 047b 020b 0a5b.	
GETD		
deib	0e1h,024h,0c1h,00dh,020h,0dch,0cdh,088h,00eh,062h,06bh,013h,03ah,08dh,05ch,0fdh;	
defb	0cbh,002h,046h,028h,003h,03ah,048h,05ch,077h,00bh,0edh,0b0h,0c1h,00eh,021h,0c9h;	
-1		
derp		
defb	044h,04dh,0c9h,03eh,018h,090h,057h,00fh,00fh,00fh,0e6h,0e0h,06fh,07ah,0e6h,018h;	
defb	0f6h.040h.067h.0c9h.0f3h.006h.0b0h.021h.000h.040h.0e5h.0c5h.0cdh.0f4h.00eh.0c1h;	
1. (1)		
arian	Uein, U24n, U7cn, Ue6n, UU7n, U20n, UUan, U7dn, UC6n, U20n, U6in, U3in, U9in, Ue6n, Ui8n, U84n;	
defb	067h,010h,0e7h,018h,00dh,0f3h,021h,000h,05bh,006h,008h,0c5h,0cdh,0f4h,00eh,0c1h;	
defb	010b 0f9b 03eb 004b 0d3b 0fbb 0fbb 021b 000b 05bb 0fdb 075b 046b 0afb 047b 077b.	
uc ro		
deib	023h,010h,01ch,01dh,0cbh,030h,08eh,00eh,021h,0c3h,0d9h,00dh,078h,01eh,003h,091h;	
defb	0e6h,002h,0d3h,0fbh,057h,0cdh,054h,01fh,038h,00ah,03eh,004h,0d3h,0fbh,0fbh,0cdh;	
defb	Odfb OOeb Ocfb OOcb Odbb Ofbb 087b 0f8b 030b Oebb 00eb 020b 05eb 023b 006b 008b	
uero		
deib	Ucbh, Ul2h, Ucbh, Ul3h, Ucbh, Ulah, Udbh, Ulbh, Ulth, U3Uh, Ulbh, U/ah, Ud3h, Ulbh, UlUh, UlUh;	
defb	00dh,020h,0e9h,0c9h,02ah,03dh,05ch,0e5h,021h,07fh,010h,0e5h,0edh,073h,03dh,05ch;	
dofb	Ordh Oddh Oleh Ofen Oleh Oodh Ofen Ofen Ofen Oleh Oreh Odoh Oreh Oben Odh ofen	
uerb		
deib	021h,038h,00fh,0e5h,0feh,018h,030h,031h,0feh,007h,038h,02dh,0feh,010h,038h,03ah;	
defb	001h,002h,000h,057h,0feh,016h,038h,00ch,003h,0fdh,0cbh,037h,07eh,0cah,01eh,010h;	
dofb	Ordb Oddb 015b 05fb 0rdb 0ddb 015b 0d5b 02rb 05bb 05rb 0fdb 0rbb 007b 086b 0rdb	
uerb		
deib	055h,016h,0c1h,023h,070h,023h,071h,018h,00ah,0fdh,0cbh,007h,086h,02ah,05bh,05ch;	
defb	0cdh,052h,016h,012h,013h,0edh,053h,05bh,05ch,0c9h,05fh,016h,000h,021h,099h,00fh;	
dofb	010b 05cb 010b 0c5b 02cb 05cb 0ccb 0c0b 06cb 06cb 05cb 05cb 07cb 07cb 0cfb.	
derp	01911, 05011, 01911, 00011, 05011, 05011, 00911, 00911, 06011, 05011, 05011, 07011, 07011, 07011, 07111,	
defb	0d4h,02ah,049h,05ch,0fdh,0cbh,037h,06eh,0c2h,097h,010h,0cdh,06eh,019h,0cdh,095h;	
defb	016h,07ah,0b3h,0cah,097h,010h,0e5h,023h,04eh,023h,046h,021h,00ah,000h,009h,044h;	
d o f b	Oldh Oldh Olfh Olfh Oldh Ol7h Ol0h Ol2h Olfh Oleh Ol2h Olfh Oleh Olfh Oldh	
uerb	04dii, 0cdii, 005ii, 011ii, 0cdii, 03 iii, 010ii, 02dii, 031ii, 03cii, 085ii, 085ii, 03eii, 011ii, 0cdii, 001ii,	
defb	U16n,Uelh,U2bh,U1dh,U35h,UU1h,Ocdh,O55h,O18h,O1dh,O34h,O0fh,O2ah,O59h,O5ch,O23h;	
defb	023h,023h,023h,022h,05bh,05ch.0e1h.0cdh.015h.016h.0c9h.0fdh.0cbh.037h.06eb.020h:	
2-5-	0.08h 0.21h 0.40h 0.5ch 0.odh 0.05h 0.10h 0.5ch 0.5ch 0.5ch 0.0ch 0.10h 0.10h 0.20h	
aerb	5557, 5217, 5437, 5567, 5677, 5517, 5137, 5167, 5567, 5167, 5567, 5567, 5567, 5167, 5187, 5187, 5167, 5677, 51	
defb	031h,010h,018h,005h,07eh,0feh,00dh,0c8h,023h,022h,05bh,05ch,0c9h,0cdh,031h,010h;	
defb	001h.001h.000h.0c3h.0e8h.019h.0cdh.0d4h.015h.0cdh.0d4h.015h.0e1h.0e1h.0e1h.022h:	
d o f b	Oldh OEah Ofdh Oabh Oloh Olah Oeah Ofdh Olah Olah Olah Olah Olah Ofdh Olah Olah	
uerb		
aeib	023n,0cin,0d8n,0c5n,044n,04dn,062n,06bn,023n,01an,0e6n,010n,01en,010n,020n,009n;	
defb	023h,01ah,0d6h,017h,0ceh,000h,020h,001h,023h,0a7h,0edh,042h,009h,0ebh,038h,0e6h;	
defb	0c9h,0fdh,0cbh,037h,06eh,0c0h,02ah,049h,05ch,0cdh,06eh,019h,0ebh,0cdh,095h,016h;	
defh	021b 04ab 05cb 0cdb 01cb 019b 0cdb 095b 017b 03eb 000b 0c3b 001b 016b 0fdb 0cbb.	
-l - f l-		
uerb		
deib	Uffn,016n,000n,0fdh,05en,0fen,021n,090n,01an,0cdh,0b5n,003n,0c3n,030n,00fn,0e5n;	
defb	<pre>0cdh,090h,011h,02bh,0cdh,0e5h,019h,022h,05bh,05ch,0fdh,036h,007h,000h,0e1h,0c9h;</pre>	
defb	0fdh.0cbh.002h.05eh.0c4h.01dh.011h.0a7h.0fdh.0cbh.001h.06eh.0c8h.03ah.03ah.05ch:	
defb	Ofdb Ocbb 001b Oseb Of5b Ofdb Ocbb 002b O6eb Oc4b O6eb 00db Of1b Ofeb 020b 030b.	
1-5-		
deib	032n, 01en, 010n, 030n, 02an, 01en, 000n, 030n, 00an, 04/n, 0e8n, 001n, 041n, 0/8n, 011n, 0c8n;	
deib	012h,018h,02ah,020h,009h,021h,06ah,05ch,03eh,008h,0aeh,077h,018h,00eh,0feh,00eh;	
defb	0d8h,0d6h,00dh,021h,041h,05ch,0beh,077h,020h,002h,036h,000h,0fdh,0cbh,002h,0deh;	
defb	0bfb,0c9b,047b,0e6b,007b,04fb,03eb,010b,0cbb,058b,020b,001b,03cb,0fdb,071b,0d3b;	
dofb	011b 00db 011b 019b 006b 03cb 00db 05cb 011b 0c9b 010b 02cb 04fb 05cb 023b 023b	
uerb		
deib	0/3h,023h,0/2h,03/h,0c9h,0cdh,04dh,00dh,0fdh,0cbh,002h,09eh,0fdh,0cbh,002h,0aeh;	
defb	02ah,08ah,05ch,0e5h,02ah,03dh,05ch,0e5h,021h,067h,011h,0e5h,0edh,073h,03dh,05ch;	
defb	02ah,082h,05ch,0e5h,037h,0cdh,095h,011h,0ebh,0cdh,07dh,018h,0ebh,0cdh,0e1h,018h;	
defb	02ab 08ab 05cb 0e3b 0ebb 0cdb 04db 00db 03ab 08bb 05cb 092b 038b 026b 020b 006b	
deib		
aeib	0/bn,0fan,096n,050n,030n,01en,03en,020n,0a5n,0can,0f4n,009n,0ain,018n,0e9n,016n;	
defb	000h,0fdh,05eh,0feh,021h,090h,01ah,0cdh,0b5h,003h,0fdh,036h,000h,0ffh,0edh,05bh;	
defb	08ah.05ch.018h.002h.0d1h.0e1h.0e1h.022h.03dh.05ch.0c1h.0d5h.0cdh.0d9h.00dh.0e1h:	
dofb	022b 082b 05cb 05cb 026b 026b 020b 020b 02b 061b 05cb 02bb 057b 0ccb 050b.	
uerb		
deib	USch, Ufdh, Ucbh, U3/h, U6eh, Uc8h, Uedh, U5bh, U61h, U5ch, Ud8h, U2ah, U63h, U5ch, Uc9h, U/eh;	
defb	0feh,00eh,001h,006h,000h,0cch,0e8h,019h,07eh,023h,0feh,00dh,020h,0f1h,0c9h,0f3h;	
defb	03eb 0ffb 0edb 05bb 0b2b 05cb 0d9b 0edb 04bb 0b4b 05cb 0edb 05bb 038b 05cb 02ab.	
1 - 51-		
derp	07bir, 03cir, 0d3ir, 047ir, 03cir, 007ir, 0d3ir, 01cir, 03cir, 03cir, 047ir, 000ir, 000ir, 000ir, 000ir, 000ir,	
defb	uuun,uuun,uezn,uebn,usen,uuzn,uzbh,ubch,uzuh,Utah,0a7h,0edh,052h,019h,023h,030h;	
defb	006h,035h,028h,003h,035h,028h,0f3h,02bh,0d9h,0edh,043h,0b4h,05ch,0edh,053h,038h;	
defb	05ch,022h,07bh,05ch,0d9h,004h,028h,019h.022h.0b4h.05ch.011h.0afh.03eh.001h.0a8h:	
defh	000h.0ebh.0edh.0b8h.0ebh.023h 022h 07bh 05ch 02bh 001h 040h 000h 0edh 043h 039h.	
1. 0.		
aran	03cn, 02zn, 03zn, 03zn, 02zn, 03cn, 03cn, 03zn, 03cn, 03cn, 02zn, 03cn, 03cn, 03cn, 03ch, 03ch, 02bh;	
defb	019h,02bh,02bh,022h,03dh,05ch,0edh,056h,0fdh,021h,03ah,05ch,0fbh,021h,0b6h,05ch;	
defb	022h,04fh,05ch,011h,0afh,015h,001h,015h,000h,0ebh,0edh,0b0h,0ebh,02bh,022h,057h;	
defh	05cb 023b 022b 053b 05cb 022b 04bb 05cb 036b 080b 023b 022b 059b 05cb 036b 00db	
dofb	022b 026b 020b 022b 021b 051b 052b 062b 052b 052b 052b 052b 052b 022b 022b	
delb	0251,0501,0601,0251,0221,0611,0521,0221,0651,0521,0651,0521,0651,0521,0501,050	
defb	usan,usch,uszh,usih,usch,uszh,u48h,usch,u21h,u23h,005h,022h,009h,05ch,0fdh,035h;	
defb	0c6h,0fdh,035h,0cah,021h,0c6h,015h,011h,010h,05ch,001h,00eh,000h,0edh,0b0h,0fdh;	
defb	0cbh,001h,0ceh,0cdh,0dfh,00eh,0fdh,036h.031h.002h.0cdh.06bh.00dh.0afh.011h.038h:	
do fh	015b Ocdb Oleb Oleb Ocdb Ocdb Oceb Oleb Oleb Oleb Oleb Oceb Oceb Oceb Oceb	
uerp		
deib	ui/n,ucan,ubun,ui6n,u3en,uuun,Ucah,UUin,Ui6n,Ucah,U2ch,U0ih,Ucah,U1/h,U1bh,Ofdh;	
defb	0cbh,000h,07eh,020h,012h,0fdh,0cbh,030h,066h,028h,040h,02ah,059h,05ch,0cdh,0a7h;	
defb	011h,0fdh,036h,000h,0ffh,018h,0ddh,02ah,059h,05ch,022h.05dh.05ch.0cdh.0fbh.019h:	
dofh	078b 0b1b 0c2b 05db 015b 0dfb 0feb 00db 028b 0c0b 0fdb 030b 036b 0c4b 0cfb	
CCID	Oldh Oldh Oldh Oldh Oldh Oldh Oldh Oldh	
2. CL	uvan,ucan,upen,uvan,usen,uisn,uian,uspn,u4in,uszn,u8ch,u5ch,uidh,ucbh,u01h,0ieh;	
defb		
defb defb	0fdh,036h,000h,0ffh,0fdh,036h,00ah,001h,0cdh,08ah,01bh,076h,0fdh,0cbh,001h,0aeh;	
defb defb defb	0fdh,036h,000h,0ffh,0fdh,036h,00ah,001h,0cdh,08ah,01bh,076h,0fdh,0cbh,001h,0aeh; 0fdh,0cbh,030h,04eh,0c4h,0cdh,00eh,03ah,03ah,05ch,03ch,0f5h,021h,000h,000h.0fdh;	
defb defb defb defb	0fdh,036h,000h,0ffh,0fdh,036h,00ah,001h,0cdh,08ah,01bh,076h,0fdh,0cbh,001h,0aeh; 0fdh,0cbh,030h,04eh,0c4h,0cdh,00eh,03ah,03ah,05ch,03ch,0f5h,021h,000h,000h,0fdh; 074h,037h,0fdh,074h,026h,022h,00bh,05ch,021h,001h,000h,022h,016h,05ch,0cdh,0b0h;	
defb defb defb defb	0fdh, 036h, 000h, 0ffh, 0fdh, 036h, 00ah, 001h, 0cdh, 08ah, 01bh, 076h, 0fdh, 0cbh, 001h, 0aeh; 0fdh, 0cbh, 030h, 04eh, 0c4h, 0cdh, 00eh, 03ah, 03ah, 05ch, 03ch, 0f5h, 021h, 000h, 000h, 0fdh; 074h, 037h, 0fdh, 074h, 026h, 022h, 00bh, 05ch, 021h, 001h, 000h, 022h, 016h, 05ch, 0cdh, 0b0h; 016h 0fdh 0fdh 0arb, 0arb, 0aeh 0fdh 0fdh 0rbh 00ch 00ch 0fdh 047h 0fdh 05ch 02ch	
defb defb defb defb defb	0fdh, 036h, 000h, 0ffh, 0fdh, 036h, 00ah, 001h, 0cdh, 08ah, 01bh, 076h, 0fdh, 0cbh, 001h, 0aeh; 0fdh, 0cbh, 030h, 04eh, 0c4h, 0cdh, 00eh, 03ah, 03ah, 05ch, 03ch, 0f5h, 021h, 000h, 000h, 0fdh; 074h, 037h, 0fdh, 074h, 026h, 022h, 00bh, 05ch, 021h, 001h, 000h, 022h, 016h, 05ch, 0cdh, 0b0h; 016h, 0fdh, 0cbh, 037h, 0aeh, 0cdh, 06eh, 00dh, 0fdh, 0cbh, 002h, 0eeh, 0f1h, 047h, 0feh, 00ah;	
defb defb defb defb defb defb	<pre>0fdh, 036h, 000h, 0ffh, 0fdh, 036h, 00ah, 001h, 0cdh, 08ah, 01bh, 076h, 0fdh, 0cbh, 001h, 0aeh; 0fdh, 0cbh, 030h, 04eh, 0c4h, 0cdh, 00eh, 03ah, 03ah, 05ch, 03ch, 0f5h, 021h, 000h, 000h, 0fdh; 074h, 037h, 0fdh, 074h, 026h, 022h, 00bh, 05ch, 021h, 001h, 000h, 022h, 016h, 05ch, 0cdh, 0b0h; 016h, 0fdh, 0cbh, 037h, 0aeh, 0cdh, 06eh, 00dh, 0fdh, 0cbh, 002h, 0eeh, 0f1h, 047h, 0feh, 00ah; 038h, 002h, 0c6h, 007h, 0cdh, 0efh, 015h, 03eh, 020h, 0d7h, 078h, 011h, 091h, 013h, 0cdh, 00ah;</pre>	
defb defb defb defb defb defb defb	<pre>0fdh, 036h, 000h, 0ffh, 0fdh, 036h, 00ah, 001h, 0cdh, 08ah, 01bh, 076h, 0fdh, 0cbh, 001h, 0aeh; 0fdh, 0cbh, 030h, 04eh, 0c4h, 0cdh, 00eh, 03ah, 03ah, 05ch, 03ch, 0f5h, 021h, 000h, 000h, 0fdh; 074h, 037h, 0fdh, 074h, 026h, 022h, 00bh, 05ch, 021h, 001h, 000h, 022h, 016h, 05ch, 0cdh, 0b0h; 016h, 0fdh, 0cbh, 037h, 0aeh, 0cdh, 06eh, 00dh, 0fdh, 0cbh, 002h, 0eeh, 0f1h, 047h, 0feh, 00ah; 038h, 002h, 0c6h, 007h, 0cdh, 0efh, 015h, 03eh, 020h, 0d7h, 078h, 011h, 091h, 013h, 0cdh, 00ah; 00ch, 0afh, 011h, 036h, 015h, 0cdh, 00ah, 00ch, 0edh, 04bh, 045h, 05ch, 0cdh, 01ah, 03eh;</pre>	
defb defb defb defb defb defb defb defb	<pre>0fdh, 036h, 000h, 0ffh, 0fdh, 036h, 00ah, 001h, 0cdh, 08ah, 01bh, 076h, 0fdh, 0cbh, 001h, 0aeh; 0fdh, 0cbh, 030h, 04eh, 0c4h, 0cdh, 00eh, 03ah, 03ah, 05ch, 03ch, 0f5h, 021h, 000h, 000h, 0fdh; 074h, 037h, 0fdh, 074h, 026h, 022h, 00bh, 05ch, 021h, 001h, 000h, 022h, 016h, 05ch, 0cdh, 0b0h; 016h, 0fdh, 0cbh, 037h, 0aeh, 0cdh, 06eh, 00dh, 0fdh, 0cbh, 002h, 0eeh, 0f1h, 047h, 0feh, 00ah; 038h, 002h, 0c6h, 007h, 0cdh, 0efh, 015h, 03eh, 020h, 0d7h, 078h, 011h, 091h, 013h, 0cdh, 00ah; 00ch, 0afh, 011h, 036h, 015h, 0cdh, 00ch, 0cdh, 04bh, 045h, 05ch, 0cdh, 01ah, 03eh; 03ah, 0d7h, 0fdh, 04eh, 00dh, 006h, 000h, 0cdh, 01ah, 0cdh, 097h, 010h, 03ah, 03ah. 05ch;</pre>	
defb defb defb defb defb defb defb defb	<pre>0fdh, 036h, 000h, 0ffh, 0fdh, 036h, 00ah, 001h, 0cdh, 08ah, 01bh, 076h, 0fdh, 0cbh, 001h, 0aeh; 0fdh, 0cbh, 030h, 04eh, 0c4h, 0cdh, 00eh, 03ah, 03ah, 05ch, 03ch, 0f5h, 021h, 000h, 000h, 0fdh; 074h, 037h, 0fdh, 074h, 026h, 022h, 00bh, 05ch, 021h, 001h, 000h, 022h, 016h, 05ch, 0cdh, 0b0h; 016h, 0cbh, 037h, 0aeh, 0cdh, 06eh, 00dh, 0fdh, 0cch, 002h, 0eeh, 0f1h, 047h, 0feh, 00ah; 038h, 002h, 0c6h, 007h, 0cdh, 0efh, 015h, 03eh, 020h, 0d7h, 078h, 011h, 091h, 013h, 0cdh, 00ah; 00ch, 0afh, 011h, 036h, 015h, 0cdh, 00ah, 00ch, 0edh, 04bh, 045h, 05ch, 0cdh, 01bh, 01ah, 03eh; 03ah, 0d7h, 0fdh, 04eh, 00dh, 006h, 000h, 0cdh, 01bh, 01ah, 03ah, 03ah, 03ah, 03ah, 03ab, 0</pre>	
defb defb defb defb defb defb defb defb	<pre>0fdh, 036h, 000h, 0ffh, 0fdh, 036h, 00ah, 001h, 0cdh, 08ah, 01bh, 076h, 0fdh, 0cbh, 001h, 0aeh; 0fdh, 0cbh, 030h, 04eh, 0c4h, 0cdh, 00eh, 03ah, 03ah, 05ch, 03ch, 0f5h, 021h, 000h, 000h, 0fdh; 074h, 037h, 0fdh, 074h, 026h, 022h, 00bh, 05ch, 021h, 001h, 000h, 022h, 016h, 05ch, 0cdh, 0b0h; 016h, 0fdh, 0cbh, 037h, 0aeh, 0cdh, 06eh, 00dh, 0fdh, 0cbh, 002h, 0eeh, 0f1h, 047h, 0feh, 00ah; 038h, 002h, 0c6h, 007h, 0cdh, 0efh, 015h, 03eh, 020h, 0d7h, 078h, 011h, 091h, 013h, 0cdh, 00ah; 00ch, 0afh, 011h, 036h, 015h, 0cdh, 00ah, 00ch, 0edh, 04bh, 045h, 05ch, 0cdh, 01bh, 01ah, 03eh; 03ah, 0d7h, 0fdh, 04eh, 00dh, 006h, 000h, 0cdh, 01bh, 01ah, 0cdh, 097h, 010h, 03ah, 03ah, 05ch; 03ch, 028h, 01bh, 0feh, 009h, 028h, 004h, 07ch, 03ch, 02dh, 003h, 0ddh, 001h, 003h; 000h, 011h, 070h, 05ch, 021h, 021h, 07ch, 020h, 021h, 020h, 021h, 003h;</pre>	

dofb	00-b 0ffb 0fdb 0-bb 001b 00-b 0-2b 0-eb 012b 080b 04fb 0-bb 04eb 04eb 054b.	
derp	oban, offin,	
defb	020h,077h,069h,074h,068h,06fh,075h,074h,020h,046h,04fh,0d2h,056h,061h,072h,069h;	
defb	061b 062b 06cb 065b 020b 06eb 06fb 074b 020b 066b 06fb 075b 06eb 0e4b 053b 075b.	
GEID		
deib	062h,073h,063h,072h,069h,070h,074h,020h,077h,072h,06th,06eh,0e7h,04th,075h,074h;	
defb	020h,06fh,066h,020h,06dh,065h,06dh,06fh,072h,0f9h,04fh,075h,074h,020h,06fh,066h;	
-l - £l-		
delb	0201,0731,0831,0721,0831,0831,0831,0881,0481,0731,0801,0821,0831,0721,0201,0741,0811;	
defb	06fh,020h,062h,069h,0e7h,052h,045h,054h,055h,052h,04eh,020h,077h,069h,074h,068h;	
defb	06fh.075h.074h.020h.047h.04fh.053h.055h.0c2h.045h.06eh.064h.020h.06fh.066h.020h;	
1. 61		
deib	U66n,U69n,U6ch,Ue5n,U53n,U54n,U4fn,U50n,U20n,U73n,U74n,U61n,U74n,U65n,U6dn,U65n;	
defb	06eh,0f4h,049h,06eh,076h,061h,06ch,069h,064h,020h,061h,072h,067h,075h,06dh,065h;	
dofb	0605 0545 0405 0605 0745 0655 0675 0655 0725 0205 0655 0755 0745 0205 0655 0665	
uerb	0001,0141,0431,0001,0741,0031,071,0031,0721,0201,0011,0731,0741,0201,0011,0001,	
defb	020h,072h,061h,06eh,067h,0e5h,04eh,06fh,06eh,073h,065h,06eh,073h,065h,020h,069h;	
defb	06eh.020h.042h.041h.053h.049h.0c3h.042h.052h.045h.041h.04bh.020h.020h.020h.043h;	
-l - £l-		
delb	0411,0401,0341,0201,0721,0631,0701,0631,0611,0741,0131,0411,0731,0741,0201,0611;	
defb	066h,020h,044h,041h,054h,0c1h,049h,06eh,076h,061h,06ch,069h,064h,020h,066h,069h;	
defb	06ch,065h,020h,06eh,061h,06dh,0e5h,04eh,06fh,020h,072h,06fh,06fh,06dh,020h,066h;	
1. 61		
deib	061n,072n,020n,06cn,069n,06en,065n,053n,054n,041n,050n,020n,069n,06en,020n,049n;	
defb	04eh,050h,055h,0d4h,046h,04fh,052h,020h,077h,069h,074h,068h,06fh,075h,074h,020h;	
defb	04eb 045b 058b 044b 049b 06eb 076b 061b 06cb 069b 064b 020b 049b 02fb 04fb 020b.	
acib		
deib	U64n,U65n,U76n,U69n,U63n,U65n,U49n,U6en,U76n,U61n,U6cn,U69n,U64n,U2Un,U63n,U61n;	
defb	06ch,06fh,075h,0f2h,042h,052h,045h,041h,04bh,020h,069h,06eh,074h,06fh,020h,070h;	
dofb	0725 0655 0675 0725 0615 0ads 0525 0415 04ds 0545 0455 0505 0205 06ab 0655 0205.	
uerb		
defb	067h,06fh,06fh,0e4h,053h,074h,061h,074h,065h,06dh,065h,06eh,074h,020h,06ch,06fh;	
defb	073h.0f4h.049h.06eh.076h.061h.06ch.069h.064h.020h.073h.074h.072h.065h.061h.0edh:	
do fb	0465 0465 0205 0275 0605 0745 0685 0755 0765 0745 0205 0445 0455 0565 0505 0615.	
derp	04611,04611,02011,07711,06911,07411,06811,06111,07511,07411,02011,04411,04511,06611,05011,06111;	
defb	072h,061h,06dh,065h,074h,065h,072h,020h,065h,072h,072h,06fh,0f2h,054h,061h,070h;	
defb	065h.020h.06ch.06fh.06fh.064h.069h.06eh.067h.020h.065h.072h.072h.06fh.0f2h.02ch;	
dofb	0-05 0755 0205 0215 0205 0225 0205 0525 0605 0625 0625 062	
delb	0a01,0711,0201,0311,0391,0301,03211,0201,0331,0691,0691,0631,0661,0611,06911,07211;	
defb	020h,052h,065h,073h,065h,061h,072h,063h,068h,020h,04ch,074h,0e4h,03eh,010h,001h;	
defb	000h,000h,0c3h,013h,013h,0edh,043h,049h,05ch,02ah,05dh,05ch,0ebh,021h,055h,015h;	
de Lo		
deib	uesn, uzan, usin, uscn, us/n, uean, uszn, uesn, usun, usyn, ucan, usen, uiyn, uzun, uusn, ucan;	
defb	0b8h,019h,0cdh,0e8h,019h,0c1h,079h,03dh,0b0h,028h,028h,0c5h,003h,003h,003h,003h;	
defb	02bb.0edb.05bb.053b.05cb.0d5b.0cdb.055b.016b.0e1b.022b.053b.05cb.0c1b.0c5b.013b:	
de Lo		
deib	U2an, U6in, U5cn, U2bn, U2bn, Uean, Ub8n, U2an, U49n, U5cn, Uebn, Ucin, U7Un, U2bn, U7in, U2bn;	
defb	073h,02bh,072h,0f1h,0c3h,0a2h,012h,0f4h,009h,0a8h,010h,04bh,0f4h,009h,0c4h,015h;	
defb	053h,081h,00fh,0c4h,015h,052h,0f4h,009h,0c4h,015h,050h,080h,0cfh,012h,001h,000h;	
dofb	0.65 0.005 0.055 0.015 0.015 0.015 0.065 0.065 0.005 0.105 0.005 0.5d5 0.025 0.6c5;	
de LD		
derp	020n,004n,01an,0ccn,002n,0den,0can,0e8n,015n,0d8n,028n,01an,0c1n,007n,0d9n,0e5n;	
defb	02ah,051h,05ch,023h,023h,018h,008h,01eh,030h,083h,0d9h,0e5h,02ah,051h,05ch,05eh;	
defb	023h,056h,0ebh,0cdh,02ch,016h,0e1h,0d9h,0c9h,087h,0c6h,016h,06fh,026h,05ch,05eh;	
defb	023h.056h.07ah.0b3h.020h.002h.0cfh.017h.01bh.02ah.04fh.05ch.019h.022h.051h.05ch:	
do fb		
uerb		
deib	016n,000n,05en,019n,0e9n,04bn,006n,053n,012n,050n,01bn,000n,01an,0cbn,002n,0c6n;	
defb	0fdh,0cbh,001h,0aeh,0fdh,0cbh,030h,0e6h,018h,004h,0fdh,0cbh,002h,086h,0fdh,0cbh;	
defb	001h.08eh.0c3h.04dh.00dh.0fdh.0cbh.001h.0ceh.0c9h.001h.001h.000h.0e5h.0cdh.005h:	
dofb	01fb 0c1b 0cdb 064b 016b 02cb 065b 05cb 0cdb 0cdb 0c9b 0c9b 0f5b 0c5b 021b 04bb.	
uerb		
deib	USch,U3eh,U0eh,U5eh,U23h,U56h,Ue3h,Ua/h,Uedh,U52h,U19h,Ue3h,U30h,UU9h,Ud5h,Uebh;	
defb	009h,0ebh,072h,02bh,073h,023h,0d1h,023h,03dh,020h,0e8h,0ebh,0d1h,0f1h,0a7h,0edh;	
defb	052h,044h,04dh,003h,019h,0ebh,0c9h,000h,000h,0ebh,011h,08fh,016h,07eh,0e6h,0c0h;	
dofb	020b 0f7b 056b 023b 05cb 0c0b 02cb 063b 05cb 02bb 0cdb 055b 016b 023b 023b 0c1b.	
uerb		
deib	Uedh,U43h,U61h,U5ch,Uc1h,Uebh,U23h,Uc9h,U2ah,U59h,U5ch,U36h,U0dh,U22h,U5bh,U5ch;	
defb	023h,036h,080h,023h,022h,061h,05ch,02ah,061h,05ch,022h,063h,05ch,02ah,063h,05ch;	
defb	022h.065h.05ch.0e5h.021h.092h.05ch.022h.068h.05ch.0e1h.0c9h.0edh.05bh.05bh.05ch.	
1. 61		
delb	0C3n, 0E3n, 019n, 023n, 07en, 027n, 0C8n, 0D9n, 023n, 020n, 018n, 037n, 0C9n, 0Can, 01en, 017n;	
defb	<pre>0cdh,001h,017h,001h,000h,000h,011h,0e2h,0a3h,0ebh,019h,038h,007h,001h,0d4h,015h;</pre>	
defb	009h.04eh.023h.046h.0ebh.071h.023h.070h.0c9h.0e5h.02ah.04fh.05ch.009h.023h.023h:	
1. 0		
derp	023n,04en,0ebn,021n,016n,017n,0can,0acn,016n,04en,006n,000n,009n,0e9n,04bn,005n;	
defb	053h,003h,050h,001h,0e1h,0c9h,0cdh,094h,01eh,0feh,010h,038h,002h,0cfh,017h,0c6h;	
defb	003h,007h,021h,010h,05ch,04fh,006h,000h,009h,04eh,023h,046h,02bh,0c9h,0efh,001h;	
defh	038h.0cdh.01eh.017h.078h.0h1h.028h.016h.0ehh.02ah.04fh.05ch.009h.023h.023h.023h.	
de Lo		
deib	0/en,0epn,0ien,04pn,028n,008n,0ien,053n,028n,004n,0ien,050n,020n,0cin,0can,05an;	
defb	017h,073h,023h,072h,0c9h,0e5h,0cdh,0f1h,02bh,078h,0b1h,020h,002h,0cfh,00eh,0c5h;	
defb	01ah,0e6h,0dfh,04fh,021h,07ah,017h,0cdh,0dch,016h,030h,0f1h,04eh,006h,000h,009h•	
derp		
deib	002h,01eh,010h,00bh,078h,0b1h,020h,0d5h,057h,0e1h,0c9h,018h,090h,0edh,073h,03fh;	
defb	05ch,0fdh,036h,002h,010h,0cdh,0afh,00dh,0fdh,0cbh,002h,0c6h,0fdh,046h,031h,0cdh;	
defb	044b 00eb 0fdb 0cbb 002b 086b 0fdb 0cbb 030b 0c6b 02ab 049b 05cb 0edb 05bb 06cb.	
delb		
deib	052h,0e3h,0cdh,06eh,019h,0c1h,0c5h,0cdh,0b8h,019h,0c1h,009h,038h,00eh,0ebh,056h;	
defb	023h,05eh,02bh,0edh,053h,06ch,05ch,018h,0edh,022h,06ch,05ch,02ah,06ch,05ch,0cdh;	
defh	06eb.019b.028b.001b.0ebb.0cdb.033b.018b.0fdb.0cbb.002b.0a6b.0c9b.03eb.003b.018b.	
- EL		
aeib	0021, 0351, 0021, 0121, 0361, 0021, 0001, 0221, 0301, 0231, 0241, 0011, 0161, 0411, 0241, 0701	
defb	UZUN,U38N,U14h,Udth,Uteh,U3bh,U28h,UU4h,Ufeh,O2ch,O2Oh,O06h,Oe7h,Ocdh,O82h,O1ch;	
defb	018h,008h,0cdh,0e6h,01ch,018h,003h,0cdh,0deh,01ch,0cdh,0eeh,01bh,0cdh,099h,01eh;	
defh	078h.0e6h.03fh.067h.069h.022h.049h.05ch.0cdh.06eh.019h.01eh.001h.0cdh.055h.018h.	
2- 5-	Addb Addb Addb Addb Addb Addb Addb Addb	
aeib	ourn, oran, otan, obzi, obzi, otan, otan, otan, otan, otan, otan, otan, Utan, Utan, Utan, Uzun, Ueen, Uabh;	
defb	Uc8h,Ue5h,Ud5h,O21h,O6ch,O5ch,Ocdh,O0fh,O19h,Od1h,Oe1h,O18h,OeOh,Oedh,O4bh,O49h;	
defb	05ch,0cdh,080h,019h,016h,03eh,028h,005h,011h,000h,000h,0cbh,013h,0fdh,073h,02dh;	
defb	07eb.0feb.040b.0c1b.0d0b.0c5b.0cdb.028b.01ab.023b.023b.023b.0fdb.0cbb.001b.086b.	
dofb		
uerb		
defb	U3ph,U5ch,Ucbh,U96h,U1dh,Ucbh,U37h,U6eh,U28h,O02h,Ocbh,Od6h,O2ah,O5fh,O5ch,Oa7h;	
defb	0edh,052h,020h,005h,03eh,03fh,0cdh,0c1h,018h,0cdh,0e1h,018h,0ebh,07eh,0cdh,0b6h;	
defh	018b 023b 0feb 00db 028b 006b 0ebb 0cdb 037b 018b 018b 0e0b 0d1b 0c9b 0feb 00eb.	
~~~~~		
dofb		
defb	0c0h, 023h, 023h, 023h, 023h, 023h, 023h, 07eh, 0c9h, 019h, 026h, 08fh, 05ch, 0e5h, 0cbh, 0bch;	

-1 - El-	0.54% 0.74% 0.57% 0.1% 0.20% 0.05% 0.5% 0.40% 0.40% 0.2% 0.5% 0.5% 0.5% 0.5% 0.5%	
derp	01an, 074n, 037n, 0etn, 022n, 081n, 03en, 0a9n, 02an, 03bn, 03en, 0a7n, 0edn, 032n, 0e0n;	
defb	03ah,041h,05ch,0cbh,007h,028h,004h,0c6h,043h,018h,016h,021h,03bh,05ch,0cbh,09eh;	
defb	03eh,04bh,0cbh,056h,028h,00bh,0cbh,0deh,03ch,0fdh,0cbh,030h,05eh,028h,002h,03eh;	
defh	043b 0d5b 0cdb 0c1b 018b 0d1b 0c9b 05eb 023b 056b 0e5b 0ebb 023b 0cdb 06eb 019b.	
dofb		
derp		
deib	018h,00dh,0afh,009h,03ch,038h,0fch,0edh,042h,03dh,028h,0f1h,0c3h,0efh,015h,0cdh;	
defb	01bh,02dh,030h,030h,0feh,021h,038h,02ch,0fdh,0cbh,001h,096h,0feh,0cbh,028h,024h;	
defb	0feh.03ah.020h.00eh.0fdh.0cbh.037h.06eh.020h.016h.0fdh.0cbh.030h.056h.028h.014h:	
dofb	018b 00cb 0fcb 022b 020b 00cb 0f5b 03cb 06cb 05cb 0ccb 004b 032b 06cb 05cb 0f1b.	
uerb		
deib	Ofdh,Ucbh,UUlh,Ud6h,Ud/h,Uc9h,Ue5h,U2ah,U53h,U5ch,U54h,U5dh,Uclh,Ucdh,U8Uh,U19h;	
defb	0d0h,0c5h,0cdh,0b8h,019h,0ebh,018h,0f4h,07eh,0b8h,0c0h,023h,07eh,02bh,0b9h,0c9h;	
defb	023h,023h,023h,022h,05dh,05ch,00eh,000h,015h,0c8h,0e7h,0bbh,020h,004h,0a7h,0c9h;	
defb	023b 07eb 0cdb 0b6b 018b 022b 05cb 05cb 0feb 022b 020b 001b 00db 0feb 03eb 028b.	
uerb		
aeip	004n,01en,020n,020n,004n,020n,041n,028n,0ain,01en,00an,020n,0e3n,015n,03/n,029n;	
defb	0e5h,07eh,0feh,040h,038h,017h,0cbh,06fh,028h,014h,087h,0fah,0c7h,019h,03fh,001h;	
defb	005h,000h,030h,002h,00eh,012h,017h,023h,07eh,030h,0fbh,018h,006h,023h,023h,04eh;	
defb	023b 046b 023b 009b 0d1b 0a7b 0edb 052b 044b 04db 019b 0ebb 0c9b 0cdb 0ddb 019b	
uerb		
deib	UCSh, 078h, 021h, 047h, 079h, 021h, 041h, 00Sh, 0Cah, 064h, 018h, 0EBh, 0E1h, 019h, 0aSh, 0Eah;	
defb	0b0h,0e1h,0c9h,02ah,059h,05ch,02bh,022h,05dh,05ch,0e7h,021h,092h,05ch,022h,065h;	
defb	05ch,0cdh,03bh,02dh,0cdh,0a2h,02dh,038h,004h,021h,0f0h,0d8h,009h,0dah,08ah,01ch;	
defb	0c3h,0c5h,016h,0d5h,0e5h,0efh,0cbh,078h,020h,020h,060h,069h,01eh,0ffh,018h,008h;	
dofb		
uerb		
deib	0ffh,0cdh,02ah,019h,00eh,0f6h,0cdh,02ah,019h,07dh,0cdh,0efh,015h,0e1h,0d1h,0c9h;	
defb	0b1h,0cbh,0bch,0bfh,0c4h,0afh,0b4h,093h,091h,092h,095h,098h,098h,098h,098h,098h;	
defb	098h,098h,07fh,081h,02eh,06ch,06eh,070h,048h,094h,056h,03fh,041h,02bh,017h,01fh;	
defb	037b 077b 044b 00fb 059b 02bb 043b 02db 051b 03ab 06db 042b 00db 049b 05cb 044b	
aeib	015n,05an,001n,03an,002n,006n,000n,06/n,01en,006n,005n,015n,010n,01cn,006n,000n;	
defb	0edh,01eh,000h,0eeh,01ch,000h,023h,01fh,004h,03dh,006h,0cch,006h,005h,003h,01dh;	
defb	004h,000h,0abh,01dh,005h,0cdh,01fh,005h,089h,020h,005h,002h,02ch,005h,0b2h,01bh;	
defh	000b 0b7b 011b 003b 0a1b 01eb 005b 0f9b 017b 008b 000b 080b 01eb 003b 04fb 01eb•	
derb		
deib	000n, 051n, 01en, 003n, 0ach, 01en, 000n, 08bn, 00an, 009n, 000n, 0ach, 022n, 008n, 000n, 03an;	
defb	01fh,005h,0edh,01dh,005h,027h,01eh,003h,042h,01eh,009h,005h,082h,023h,000h,0ach;	
defb	00eh,005h,0c9h,01fh,005h,0f5h,017h,00bh,00bh,00bh,00bh,008h,000h,0f8h,003h,009h;	
defb	005h.020h.023h.007h.007h.007h.007h.007h.007h.008h.000h.07ah.01eh.006h.000h.094h:	
dofb		
derp		
defb	093h,017h,00ah,02ch,00ah,000h,093h,017h,00ah,000h,093h,017h,000h,093h,017h,0fdh;	
defb	0cbh,001h,0beh,0cdh,0fbh,019h,0afh,032h,047h,05ch,03dh,032h,03ah,05ch,018h,001h;	
defb	0e7h,0cdh,0bfh,016h,0fdh,034h,00dh,0fah,08ah,01ch,0dfh,006h,000h,0feh,00dh,028h;	
defb	07ab 0feb 03ab 028b 0ebb 021b 076b 01bb 0e5b 04fb 0e7b 079b 0d6b 0ceb 0dab 08ab.	
derb		
deib	01ch, 041h, 021h, 048h, 01ah, 009h, 04eh, 009h, 018h, 005h, 02ah, 074h, 05ch, 07eh, 025h, 022h;	
defb	074h,05ch,001h,052h,01bh,0c5h,04fh,0feh,020h,030h,00ch,021h,001h,01ch,006h,000h;	
defb	009h,04eh,009h,0e5h,0dfh,005h,0c9h,0dfh,0b9h,0c2h,08ah,01ch,0e7h,0c9h,0cdh,054h;	
defb	01fh,038h,002h,0cfh,014h,0fdh,0cbh,00ah,07eh,020h,071h,02ah,042h,05ch,0cbh,07ch;	
defb	028b 014b 021b 0feb 0ffb 022b 045b 05cb 02ab 061b 05cb 02bb 0edb 05bb 059b 05cb.	
dofb		
uerb		
deib	043h,047h,07eh,0e6h,0c0h,078h,028h,00fh,0cfh,0ffh,0cfh,0cdh,030h,025h,0c8h,02ah;	
defb	055h,05ch,03eh,0c0h,0a6h,0c0h,0afh,0feh,001h,0ceh,000h,056h,023h,05eh,0edh,053h;	
defb	045h,05ch,023h,05eh,023h,056h,0ebh,019h,023h,022h,055h,05ch,0ebh,022h,05dh,05ch;	
defb	057h.01eh.000h.0fdh.036h.00ah.0ffh.015h.0fdh.072h.00dh.0cah.028h.01bh.014h.0cdh:	
dofb	Othe olde olde olde olde olde olde olde old	
derb		
aeip	Uban, Uien, Usan, Ucan, Uzan, Uibn, Ucan, Usan, Uicn, Uurn, Uian, U4bn, UU9n, U6/n, UUbn, U/bn;	
defb	08eh,071h,0b4h,081h,0cfh,0cdh,0deh,01ch,0bfh,0c1h,0cch,0eeh,01bh,0ebh,02ah,074h;	
defb	05ch,04eh,023h,046h,0ebh,0c5h,0c9h,0cdh,0b2h,028h,0fdh,036h,037h,000h,030h,008h;	
defb	0fdh,0cbh,037h,0ceh,020h,018h,0cfh,001h,0cch,096h,029h,0fdh,0cbh,001h,076h,020h;	
defb	00db 0=fb 0cdb 030b 025b 0cdb 0flb 02bb 02lb 07lb 05cb 0b6b 077b 0ebb 0edb 043b.	
uerb		
deib	U/2n,UScn,U22n,U4an,UScn,Uc9n,Uc1n,Ucan,US6n,U1cn,Ucan,Ueen,U1bn,Uc9n,U3an,U3bn;	
defb	05ch,0f5h,0cdh,0fbh,024h,0f1h,0fdh,056h,001h,0aah,0e6h,040h,020h,024h,0cbh,07ah;	
defb	0c2h,0ffh,02ah,0c9h,0cdh,0b2h,028h,0f5h,079h,0f6h,09fh,03ch,020h,014h,0f1h,018h;	
defb	0a9h,0e7h,0cdh,082h,01ch,01ch,02ch,020h,009h,0e7h,0cdh,01bh,024h,01dh,0cbh,001h;	
defb	076b 0c0b 0cfb 00bb 0cdb 0fbb 024b 0fdb 0cbb 001b 076b 0c8b 018b 0f4b 0fdb 0cbb.	
deib	001n, 07en, 01an, 0cbn, 002n, 086n, 0c4n, 04an, 00an, 011n, 03an, 074n, 03cn, 0a6n, 013n, 0can;	
defb	uich,u2in,ucdh,Ueeh,U1bh,U2ah,U8ih,U5ch,U22h,08dh,05ch,021h,091h,05ch,07eh,007h;	
defb	0aeh,0e6h,0aah,0aeh,077h,0c9h,0cdh,030h,025h,028h,013h,0fdh,0cbh,002h,086h,0cdh;	
defb	04dh,00dh,021h,090h,05ch,07eh,0f6h,0f8h,077h,0fdh,0cbh,057h,0b6h,0dfh,0cdh,0e2h;	
defb	021b 018b 08fb 0c3b 005b 006b 0feb 00db 028b 004b 0feb 03ab 020b 08cb 0cdb 030b.	
uerb		
aeip	025n,008n,001n,030n,038n,009n,001n,008n,001n,000n,030n,025n,028n,00an,001n,002n;	
defb	038h,0ebh,0cdh,0e9h,034h,0dah,0b3h,01bh,0c3h,029h,01bh,0feh,0cdh,020h,009h,0e7h;	
defb	<pre>0cdh,082h,01ch,0cdh,0eeh,01bh,018h,006h,0cdh,0eeh,01bh,0efh,0a1h,038h,0efh,0c0h;</pre>	
defb	002h.001h.0e0h.001h.038h.0cdh.0ffh.02ah.022h.068h.05ch.02bh.07eh.0cbh.0feh.001h:	
uerb		
deib	uson, uein, ueon, uuen, uuan, uean, ubun, Uzan, U45n, U5cn, Uebh, 073h, 023h, 072h, 01dh, 056h;	
defb	00dh,014h,023h,072h,0cdh,0dah,01dh,0d0h,0fdh,046h,038h,02ah,045h,05ch,022h,042h;	
defb	05ch,03ah,047h,05ch,0edh,044h,057h,02ah,05dh,05ch,01eh,0f3h,0c5h,0edh,04bh,055h;	
defh	05ch,0cdh,086h,01dh,0edh,043h,055h,05ch,0c1h,038h,011h,0e7h,0f6h,020h,0b8h,028h	
dofh	003h.0e7h.018h.0e8h.0e7h.03eh.001h 092h 032h 044h 05ch 0c4h 0cfh 011h 07ah 0fch	
UETD		
deib	usan, uzan, uzan, uzan, uzan, uzan, ucun, usan, ucun, usan, uzan, uzan, udan, udan, udan, udan, udan, udan, usa	
defb	U23h,U4eh,U23h,O46h,Oe5h,O09h,O44h,O4dh,Oe1h,O16h,O00h,Oc5h,Ocdh,O8bh,O19h,Oc1h;	
defb	0d0h,018h,0e0h,0fdh,0cbh,037h,04eh,0c2h,02eh,01ch,02ah,04dh,05ch,0cbh,07eh,028h;	
defb	01fh,023h,022h,068h,05ch,0efh,0e0h,0e2h,00fh.0c0h.002h.038h.0cdh.0dah.01dh.0d8h:	
dofb		
uerb		
deib	<pre>vcin, vvin, vein, vein, vein, vein, vin, vin, vvin, vvi</pre>	
defb	0c9h,038h,037h,0c9h,0e7h,0cdh,01fh,01ch,0cdh,030h,025h,028h,029h,0dfh,022h,05fh;	
defb	05ch,02ah,057h,05ch,07eh,0feh,02ch,028h,009h,01eh,0e4h,0cdh,086h,01dh,030h,002h;	
defb	0cfh,00dh,0cdh,077h,000h,0cdh,056h,01ch,0dfh.022h.057h.05ch.02ah.05fh.05ch.0fdh:	
0.010		
2 - f2	0366 0266 0006 0adb 0786 0006 0dtb 0tob 0266 0286 0adb 0adb 0acb 0166 0a06 0ttl	

deib		
1 61	U30n, U25n, U20n, UUDn, UCAn, UIDn, U24n, UIEn, U2Cn, UC4n, Ueen, UIDn, UE/n, UI8n, UI5n, U3en;	
deib	0e4h,047h,0edh,0b9h,011h,000h,002h,0c3h,08bh,019h,0cdh,099h,01eh,060h,069h,0cdh;	
1. 61		
deib	06en,019n,02bn,022n,05/n,05cn,0c9n,0can,099n,01en,078n,0bin,020n,004n,0ean,04bn;	
defb	078h,05ch,0edh,043h,076h,05ch,0c9h,02ah,06eh,05ch,0fdh,056h,036h,018h,00ch,0cdh;	
dofb	000b 01cb 060b 060b 016b 000b 07cb 05cb 050b 02cb 02cb 042b 05cb 05cb 07cb.	
delb	099n, 01en, 080n, 089n, 018n, 000n, 07cn, 01en, 010n, 030n, 02cn, 022n, 042n, 03cn, 01an, 072n;	
defb	00ah,0c9h,0cdh,085h,01eh,0edh,079h,0c9h,0cdh,085h,01eh,002h,0c9h,0cdh,0d5h,02dh;	
defb	038b 015b 028b 002b 0edb 044b 0f5b 0cdb 098b 01eb 0f1b 0c9b 0cdb 0d5b 02db 018b.	
acto		
deib	UU3h,Ucdh,Ua2h,U2dh,U38h,UU1h,Uc8h,Uc1h,UUah,Ucdh,U6/h,U1eh,UU1h,UUUh,UUUh,Ucdh;	
defb	045h.01eh.018h.003h.0cdh.099h.01eh.078h.0b1h.020h.004h.0edh.04bh.0b2h.05ch.0c5h;	
1. 61		
delb	uean, usan, utan, usan, usan, usan, usan, usan, ucan, uesn, utan, utan, utan, utan, utan, utan, utan, utan, utan	
defb	05ch,011h,032h,000h,019h,0d1h,0edh,052h,030h,008h,02ah,0b4h,05ch,0a7h,0edh,052h;	
defb	030b 002b 0cfb 015b 0ebb 022b 0b2b 05cb 0d1b 0c1b 036b 03eb 02bb 0f9b 0c5b 0edb.	
Gerb	0501, 0021, 0011, 0151, 0651, 0221, 0521, 0301, 0411, 0611, 0501, 0501, 02511, 01511, 06511, 0601,	
deib	073h,03dh,05ch,0ebh,0e9h,0d1h,0fdh,066h,00dh,024h,0e3h,033h,0edh,04bh,045h,05ch;	
defb	0c5h.0e5h.0edh.073h.03dh.05ch.0d5h.0cdh.067h.01eh.001h.014h.000h.02ah.065h.05ch;	
al a fala		
derp	00911,03811,00a11,00a11,02111,03011,00011,01911,03811,00311,00a11,07211,00811,07211,00311,00311,00311,00311,0	
defb	055h,000h,001h,000h,000h,0cdh,005h,01fh,044h,04dh,0c9h,0c1h,0e1h,0d1h,07ah,0feh;	
dofb	030b 028b 00bb 03bb 003b 00bb 00db 073b 03db 05cb 0c5b 0c3b 073b 01cb 0d5b 0c5b.	
Gerb		
deib	0cth,006h,0cdh,099h,01eh,076h,00bh,078h,0b1h,028h,00ch,078h,0a1h,03ch,020h,001h;	
defb	003h.0fdh.0cbh.001h.06eh.028h.0eeh.0fdh.0cbh.001h.0aeh.0c9h.03eh.07fh.0dbh.0feh:	
al a fala		
delb	0111,0d8n,03en,01en,01en,0111,003n,00an,030n,025n,028n,005n,03en,00en,003n;	
defb	039h,01eh,0fdh,0cbh,001h,0f6h,0cdh,08dh,02ch,030h,016h,0e7h,0feh,024h,020h,005h;	
defb	0fdb 0cbb 001b 0b6b 0e7b 0feb 028b 020b 03cb 0e7b 0feb 029b 028b 020b 0cdb 08db.	
acib		
deib	02ch,0d2h,08ah,01ch,0ebh,0e7h,0feh,024h,020h,002h,0ebh,0e7h,0ebh,001h,006h,000h;	
defb	0cdh.055h.016h.023h.023h.036h.00eh.0feh.02ch.020h.003h.0e7h.018h.0e0h.0feh.029h;	
dofb	020b 012b 057b 055b 02db 020b 005b 027b 025b 056b 056b 056b 054b 054b 054b	
derp	02011, 01311, 02711, 012011, 02011, 00011, 00011, 03201, 032011, 032011, 01311, 022011, 012011, 022011, 01111;	
defb	Utdh,Uaeh,OOlh,Oe6h,O4Oh,Oc2h,O8ah,O1ch,Ocdh,Oeeh,O1bh,Ocdh,O3Oh,O25h,Oe1h,Oc8h;	
defb	0e9h,03eh,003h,018h,002h,03eh,002h,0cdh,030h,025h,0c4h,001h,016h,0cdh,04dh,00dh;	
1. 0		
delb	ucan, uain, uiin, ucan, ueen, uibn, ucan, uain, ucan, uasn, uzun, uzun, ucan, uain, ucan, uain, uzun;	
defb	028h,0fbh,0cdh,0fch,01fh,0cdh,04eh,020h,028h,0f3h,0feh,029h,0c8h,0cdh,0c3h,01fh;	
defb	03eb 00db 0d7b 0c9b 0dfb 0feb 0ecb 020b 00db 0cdb 079b 01cb 0cdb 0c3b 01fb 0cdb.	
GEID		
deib	007h,023h,03eh,016h,018h,010h,01eh,0adh,020h,012h,0e7h,0cdh,082h,01ch,0cdh,0c3h;	
defb	01fh.0cdh.099h.01eh.03eh.017h.0d7h.079h.0d7h.078h.0d7h.0c9h.0cdh.0f2h.021h.0d0h;	
dofb	Ordh 070b 020b 0d0b 0rdb 0fbb 024b 0rdb 0r2b 01fb 0fdb 0rbb 001b 076b 0rab 0f1b.	
derp		
defb	02bh,0c2h,0e3h,02dh,078h,0b1h,00bh,0c8h,01ah,013h,0d7h,018h,0f7h,0feh,029h,0c8h;	
defb	0feb.00db.0c8b.0feb.03ab.0c9b.0dfb.0feb.03bb.028b.014b.0feb.02cb.020b.00ab.0cdb:	
4010		
deib	030n,025n,028n,000n,03en,006n,0a/n,018n,006n,01en,02/n,0c0n,0can,015n,011n,0e/n;	
defb	0cdh,045h,020h,020h,001h,0c1h,0bfh,0c9h,0feh,023h,037h,0c0h,0e7h,0cdh,082h,01ch;	
defb	0=7b 0cdb 0c3b 01fb 0cdb 094b 01eb 0feb 010b 0d2b 00eb 016b 0cdb 001b 016b 0=7b.	
uerb		
deib	0c9h,0cdh,030h,025h,028h,008h,03eh,001h,0cdh,001h,016h,0cdh,06eh,00dh,0fdh,036h;	
defb	002h,001h,0cdh,0c1h,020h,0cdh,0eeh,01bh,0edh,04bh,088h,05ch,03ah,06bh,05ch,0b8h;	
defb	0385 0035 00eb 0215 0475 0edb 0435 0885 05cb 03eb 0195 0905 0325 08cb 05cb 0fdb.	
GEID		
deib	Ucbh, UU2h, U86h, Ucdh, Ud9h, UUdh, Uc3h, U6eh, UUdh, Ucdh, U4eh, U2Uh, U28h, Ufbh, Ufeh, U28h;	
defb	020h,00eh,0e7h,0cdh,0dfh,01fh,0dfh,0feh,029h,0c2h,08ah,01ch,0e7h,0c3h,0b2h,021h;	
dofb	Ofob 0cob 020b 011b 0c7b 0cdb 01fb 01cb 0fdb 0cbb 037b 0fob 0fdb 0cbb 001b 076b	
uerb		
deib	0c2h,08ah,01ch,018h,00dh,0cdh,08dh,02ch,0d2h,0ath,021h,0cdh,01th,01ch,01dh,0cbh;	
defb	037h,0beh,0cdh,030h,025h,0cah,0b2h,021h,0cdh,0bfh,016h,021h,071h,05ch,0cbh,0b6h;	
dofb	0.5h 0.5ch 0.01h 0.01h 0.00h 0.5ch 0.20h 0.0kh 0.2ch 0.2kh 0.5ch 0.5ch 0.40h 0.20h 0.02h.	
derp		
defb	00eh,003h,0b6h,077h,0f7h,036h,00dh,079h,00fh,00fh,030h,005h,03eh,022h,012h,02bh;	
defb	077h,022h,05bh,05ch,0fdh,0cbh,037h,07eh,020h,02ch,02ah,05dh,05ch,0e5h,02ah,03dh;	
4010		
deib	USCn, Uesn, Uzin, Usan, Uzin, Uesn, Uran, Ucon, Usun, U66n, Uz8n, UU4n, Uean, U7sn, Usan, UScn;	
defb defb	02ah,061h,02ch,0cdh,0a7h,011h,0fdh,036h,000h,0ffh,0cdh,02ch,00fh,0fdh,0cbh,001h;	
defb defb defb	USch, UeSh, U21h, USah, U21h, UeSh, UICah, UCCh, U3Uh, USch, U28h, UU4h, Ueah, U7sh, USah, USch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cbh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cch, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h;	
defb defb defb	Usch, Uesh, Uzih, Usah, Uzih, Uesh, Uitah, Ucoh, Usuh, Usah, Uutah, Uutah, Uutah, Usah, Usah, Usah, Usah, Usah, Olah, Olah, Osah, Os	
defb defb defb defb	05ch, Uesh, Uzih, Usah, Uzih, Uesh, Uiah, Ucah, Usah, Usah, Uuah, Uuah, Ueah, Uish, Usah, Usah, Usah, Usah, Usah, Osah, Ozah, Ofah, Osah,	
defb defb defb defb defb	<pre>05ch, Ue5h, U21h, U5ah, U21h, Ue5h, U1ah, Ucah, U03h, U30h, U86h, U28h, U04h, Ueah, U13h, U3ah, U5ch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cbh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 022h, 03dh, 05ch, 0e1h, 022h, 05fh, 05ch;</pre>	
defb defb defb defb defb defb	<pre>05ch, Uesh, U21h, Usah, U21h, Uesh, U1ah, Ucah, U30h, Usah, U28h, U04h, Ueah, U1ah, Usah, Usah, Usah, U3ch, Usah, U2ah, O61h, O5ch, Ocah, Oa7h, O11h, O1dh, O3dh, O3dh, O3dh, O2dh, Ocah, O1h, O1dh, Ocah, O1h; 0beh, Ocah, Ob9h, O21h, O18h, O03h, Ocah, O2ch, O0fh, Ofdh, O3dh, O2ch, O00h, Ocah, Odeh, O1h; 020h, O0ah, Ocah, O1dh, O11h, Oedh, O4bh, O82h, O5ch, Ocah, Od9h, O0dh, O21h, O11h, O5ch, Ocah; 0aeh, Ocah, O1ch, O1ch, O1eh, O20h, O1ch, Oe1h, O22h, O3dh, O5ch, O22h, O3dh; O1h, O1ch, O5ch; 0fdh, Ocah, O1h, Ofeh, Ocah, Ob9h, O21h, O2ah, O5ch, O5ch, Ofdh, O3ch, O2ch, O00h, O22h, O5dh;</pre>	
defb defb defb defb defb defb	05ch, Ue5h, U21h, U5ah, U21h, Ue5h, U1ah, Uc5h, U30h, U5ah, U04h, Ueah, U1ah, U5ah,	
defb defb defb defb defb defb defb	05ch, 0e5h, 021h, 05ah, 021h, 0e5h, 01ch, 0coh, 030h, 06ch, 028h, 004h, 0eah, 013h, 03ah, 05ch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cbh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 022h, 03dh, 05ch, 0e1h, 022h, 05fh, 05ch; 0fdh, 0cbh, 001h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 036h, 026h, 000h, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 052h, 044h, 04dh, 0cdh;	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Usin, Usin, Usin, Uesh, Utan, Ucoh, Usun, Usun, Uush, Uush, Uush, Uush, Usan, U</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Usin, Usin, Usin, Uesh, Utan, Ucoh, Usun, Usun, Uush, Uush, Uush, Uush, Usan, Usan, Usch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 000h, 0cdh, 0cdh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 022h, 03dh, 05ch, 0e1h, 022h, 05fh, 05ch; 0fdh, 0cbh, 001h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 036h, 026h, 000h, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 052h, 044h, 04dh, 0cdh; 0b2h, 02ah, 061h, 05ch, 022h, 05dh, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh;</pre>	
defb defb defb defb defb defb defb defb	05ch, 0esh, 021h, 05ah, 021h, 0esh, 01ah, 0coh, 030h, 06ch, 028h, 004h, 0eah, 01ah, 03ah, 03ah, 0sch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cbh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 022h, 03dh, 05ch, 021h, 071h, 05ch, 05ch; 0fdh, 0cbh, 001h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 036h, 026h, 000h, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 05ch, 044h, 0ddh; 0b2h, 02ah, 0cdh, 0ffh, 02ah, 018h, 003h, 0cdh, 0fch, 01fh, 0cdh, 04eh, 020h, 0cah, 0c1h, 020h; 0c9h, 01ch, 04ch, 05ch, 022h, 05dh, 05ch, 0dfh, 0feh, 02ch, 025h, 0ceh, 01ch, 03ch, 071h, 05ch, 0cdh; 059h, 01ch, 04ch, 0ffh, 02ah, 063h, 05ch, 0dfh, 0feh, 02ch, 025h, 026h, 01ch, 03ch, 071h, 05ch, 0cdh; 059h, 01ch, 04ch, 06dh, 06dh, 05ch, 0dfh, 0feh, 02ch, 025h, 0ceh, 01ch, 02ch, 05ch, 01ch, 02ch, 05ch, 02ch, 05ch, 00ch, 02ch, 05ch, 02ch, 05ch, 02ch, 03ch, 02ch, 03ch, 071h, 05ch, 0cdh; 059h, 01ch, 04ch, 06dh, 06dh, 05ch, 0db, 00ch, 03ch, 03ch, 02ch, 05ch, 0dch, 01ch, 02ch, 05ch, 02ch, 05ch, 02ch, 05ch, 02ch, 05ch, 02ch, 03ch, 03ch, 02ch, 03ch, 02ch, 05ch, 02ch, 05ch, 02ch, 05ch, 02ch, 05ch, 02ch, 05ch, 02ch, 05ch, 02ch, 03ch, 03	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Us1h, Usah, Us1h, Uesh, Utah, Ucah, Us0h, Us0h, Usah, Uu4h, Ueah, Ur3h, Usah, Usah, Usch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 000h, 0cdh, 0cdh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 022h, 03dh, 05ch, 0e1h, 022h, 05fh, 05ch; 0fdh, 0cbh, 001h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 036h, 026h, 000h, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 052h, 044h, 04dh, 0cdh; 0b2h, 02ah, 0cfh, 02ah, 018h, 003h, 0cch, 01fh, 0cch, 01fh, 0cdh, 02ah, 05ch, 0cdh; 0c9h, 02ah, 061h, 05ch, 022h, 05dh, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 059h, 01ch, 0dfh, 0feh, 00dh, 0cch, 0cfh, 00bh, 0cch, 03h, 025h, 0c8h, 0cfh, 010h, 02ah, 051h; 0c9h, 00ah, 00ah, 0ceh, 0ceh, 0ch, 00bh, 0cch, 03h, 025h, 0c8h, 0cfh, 010h, 02ah, 051h; 0c9h, 00ah, 00ah, 0ceh, 0ceh, 0ch, 00bh, 0cch, 03h, 025h, 0c8h, 0cfh, 010h, 02ah, 051h; 0c9h, 00ah, 00ah, 0ceh, 0ceh, 0ch, 0ch, 0ch, 02ah, 0c5h, 0ch; 0c9h, 00ah, 0ceh, 00ah, 0ceh, 0ch, 0ch, 02ah, 0c5h, 0c8h, 0cfh, 010h, 02ah, 051h; 0c9h, 00ah, 00ah, 0ceh, 0ceh, 0ch, 0ch, 0ch, 02ah, 0c5h, 0ch; 0c9h, 00ah, 0ceh, 00ah, 0ceh, 0ceh, 0ch, 0ceh, 0ceh,</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Usin, Usin, Usin, Uesh, Utan, Ucoh, Usun, Usun, Uush, Uush, Uush, Uush, Usan, Usan, Usch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 000h, 0cdh, 0cdh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 022h, 03dh, 05ch, 0e1h, 022h, 05fh, 05ch; 0fdh, 0cbh, 01h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 036h, 026h, 000h, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 052h, 044h, 04dh, 0cdh; 0b2h, 02ah, 0cfh, 02ah, 018h, 003h, 0cch, 0fch, 01fh, 0cdh, 04eh, 020h, 0cah, 0c1h, 020h; 0c9h, 02ah, 061h, 05ch, 022h, 05dh, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 059h, 01ch, 0dfh, 0feh, 00dh, 0c8h, 0cfh, 00bh, 0cdh, 030h, 025h, 0c8h, 0cfh, 010h, 02ah, 051h; 05ch, 023h, 023h, 023h, 023h, 07eh, 0feh, 04bh, 0c9h, 0e7h, 0cdh, 0f2h, 021h, 0d8h, 0dfh, 0feh;</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Us1h, Usah, Us1h, Uesh, Utah, Ucah, Us0h, Us0h, Usah, Uu4h, Ueah, U13h, Usah, Usch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cbh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 022h, 03dh, 05ch, 01eh, 022h, 05fh, 05ch; 0fdh, 0cbh, 001h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 03fh, 036h, 026h, 000h, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 05zh, 044h, 0ddh; 0b2h, 02ah, 0cdh, 0ffh, 02ah, 01eh, 00sh, 0cdh, 0fch, 01fh, 0cdh, 04eh, 020h, 0cah, 0c1h, 020h; 0c9h, 02ah, 061h, 05ch, 022h, 05dh, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 059h, 01ch, 0dfh, 0feh, 00dh, 0c8h, 0cfh, 00bh, 0cdh, 03h, 025h, 0c8h, 0cfh, 010h, 02ah, 051h; 05ch, 023h, 023h, 023h, 07eh, 0feh, 04bh, 0c9h, 0e7h, 0cdh, 0f2h, 021h, 0d8h, 0dfh, 0feh; 02ch, 028h, 0f6h, 0feh, 03bh, 028h, 0f2h, 0c3h, 08ah, 01ch, 0feh, 0d9h, 0d8h, 0feh, 03fh;</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, U21h, Usah, U21h, Uesh, U1ch, Ucch, U30h, Usch, U28h, U04h, Ueah, U13h, Usah, U5ch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cbh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 03ch, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 022h, 03dh, 05ch, 0e1h, 022h, 05fh, 05ch; 0fdh, 0cbh, 01h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 036h, 026h, 000h, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 052h, 044h, 04dh, 0cdh; 0b2h, 02ah, 0cdh, 0ffh, 02ah, 018h, 003h, 0cdh, 0fch, 01fh, 0cdh, 04eh, 020h, 0cah, 01h, 020h; 0c9h, 02ah, 061h, 05ch, 022h, 05dh, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 059h, 01ch, 0dfh, 0feh, 00dh, 0c8h, 0cfh, 00bh, 0cdh, 030h, 025h, 0c8h, 0cfh, 010h, 02ah, 051h; 05ch, 023h, 023h, 023h, 07eh, 0feh, 04bh, 0c9h, 0e7h, 0cdh, 0feh, 0d8h, 0dfh, 0dfh, 0feh; 02ch, 028h, 0feh, 0feh, 03bh, 028h, 0f2h, 0c3h, 08ah, 01ch, 0feh, 0d9h, 0d8h, 0dfh, 0dfh; 0feh, 0feh, 0feh, 0dfh, 0feh, 0c8h, 0f2h, 0c8h, 0cfh, 01bh, 0c3h, 01fh, 0feh; 02ch, 028h, 0feh, 0feh, 0d8h, 0f2h, 0c8h, 08ah, 01ch, 0feh, 0d9h, 0d8h, 0dfh, 0dfh; 0feh, 0feh, 0feh, 0dfh, 0feh, 0c8h, 0feh, 0deh, 0feh, 0dfh, 0feh; 0dfh, 0feh; 0d8h, 0ffh, 0feh, 0dfh, 0feh, 0c8h, 0feh, 0c8h, 0feh, 0dfh, 0feh; 0dfh; 0d8h, 0ffh, 0feh, 0dfh, 0feh, 0dh, 0c8h, 0feh, 0c8h, 01ch, 0feh, 0dgh, 0dfh, 0feh; 0dfh; 0d8h, 0ffh, 0feh, 0dfh, 0feh, 0dh, 0c8h, 0feh, 0c8h, 0feh, 0feh; 0dgh, 0feh, 0dfh; 0feh; 0dfh; 0dfh; 0dfh; 0dfh; 0dfh; 0dfh; 0dfh; 0dfh; 0dfh; 0feh; 0dfh; 0dfh;</pre>	
defb defb defb defb defb defb defb defb	05ch, 0esh, 021h, 03ah, 021h, 0esh, 01ah, 0coh, 030h, 06ch, 028h, 004h, 0eah, 013h, 03ah, 05ch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cbh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 022h, 03dh, 05ch, 01eh, 022h, 05fh, 05ch; 0fdh, 0cbh, 001h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 036h, 026h, 000h, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05h, 061h, 05ch, 037h, 0edh, 052h, 044h, 0ddh, 0cdh; 0b2h, 02ah, 0cdh, 0ffh, 02ah, 018h, 003h, 0cdh, 0fch, 01fh, 0cdh, 04eh, 020h, 0cah, 0c1h, 020h; 0c9h, 02ah, 061h, 05ch, 022h, 05dh, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 059h, 01ch, 0dfh, 0feh, 00dh, 0c8h, 0cfh, 04bh, 0c9h, 0e7h, 0cdh, 0ffh, 01h, 0feh; 05ch, 023h, 023h, 023h, 07eh, 0feh, 04bh, 0c9h, 0e7h, 0cdh, 0d9h, 0d8h, 0feh, 0dfh, 0feh; 02ch, 028h, 0f6h, 0feh, 03bh, 028h, 0f2h, 0c3h, 08ah, 01ch, 0feh, 0d9h, 0d8h, 0feh, 0dfh, 03fh; 0d8h, 0f5h, 0e7h, 0f1h, 0d6h, 0c9h, 0f5h, 0cdh, 082h, 01ch, 0f1h, 0a7h, 0cdh, 0c3h, 01fh, 0f5h; 0d4h, 0f1h, 0f1h, 0f1h, 0d6h, 0c9h, 0f5h, 0cdh, 082h, 01ch, 0f1h, 0a7h, 0cdh, 0f1h, 0f5h; 0d4h, 0f1h, 0f1h, 0f1h, 0d6h, 0c9h, 0f1h, 0c7h, 0f1h, 0a7h, 0cdh, 0f1h, 0f5h; 0d4h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h; 0d4h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h; 0d8h, 0f5h, 0e7h, 0f1h, 0d6h, 0c9h, 0f5h, 0c7h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f5h; 0d1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h; 0d1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h; 0d1h, 0f1h, 0f1h, 0f1h, 0f1h, 0f1h; 0d1h, 0f1h, 0f1h, 0f1h, 0f1h; 0d1h, 0f1h, 0f1h, 0f1h; 0d1h, 0f1h, 0f1h, 0f1h; 0d1h, 0f1h, 0f1h; 0d1h, 0f1h, 0f1h; 0d1h, 0f1h, 0f1h; 0d1h, 0f1h; 0d1h, 0f1h; 0d1h, 0f1h; 0d1h, 0f1h; 0d1h; 0d1h; 0d1h; 0d1h; 0d1h; 0d1h; 0d1h; 0d1h; 0d1h; 0d1h; 0d1h; 0d1h; 0	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Us1h, Usah, Us1h, Uesh, Utah, Ucah, Us0h, Us0h, Usah, Uu4h, Ueah, U13h, Usah, Usch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cbh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 022h, 03dh, 05ch, 0e1h, 022h, 05fh, 05ch; 0fdh, 0cbh, 001h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 036h, 026h, 000h, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 052h, 044h, 04dh, 0cdh; 0b2h, 02ah, 0cdh, 0ffh, 02ah, 018h, 003h, 0cdh, 0fch, 01fh, 0cdh, 04eh, 020h, 0cah, 0c1h, 020h; 0c9h, 02ah, 061h, 05ch, 022h, 05dh, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 059h, 01ch, 0dfh, 0feh, 00dh, 0c8h, 0cfh, 00bh, 0cdh, 030h, 025h, 0c8h, 0cfh, 010h, 02ah, 051h; 05ch, 023h, 023h, 023h, 07eh, 0feh, 04bh, 0c9h, 0e7h, 0cdh, 0feh, 01h, 02ah, 0dfh, 0feh; 02ch, 028h, 0feh, 0feh, 03bh, 028h, 0f2h, 0c3h, 08ah, 01ch, 0feh, 0d9h, 0d8h, 0feh, 0dfh, 03fh; 0d8h, 0f5h, 0e7h, 0f1h, 0d6h, 0c9h, 0f5h, 0cch, 082h, 01h, 0c7h, 0cdh, 0c3h, 01fh, 0f5h; 0cdh, 094h, 01eh, 057h, 0f1h, 0d7h, 07ah, 0d7h, 0c9h, 0d6h, 011h, 0ceh, 000h, 028h, 01dh, 0d6h;</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Us1h, Usah, Us1h, Uesh, Utah, Ucoh, Us0h, Usch, Usah, Uu4h, Ueah, U14h, Usah, Usah, Usch; U2ah, O61h, O5ch, Ocdh, Oa7h, O11h, Ofdh, O3ch, O00h, Offh, Ocdh, O2ch, O0fh, Ofdh, Ocbh, O01h; Ubeh, Ocdh, Ob9h, O21h, O18h, O03h, Ocdh, O2ch, O0fh, Ofdh, Ocdh, O2ch, O0fh, Ofdh, Ocbh, O1h; O2ch, O0ah, Ocdh, O1dh, O11h, Oedh, O4bh, 082h, O5ch, Ocdh, Od9h, O0dh, O21h, O71h, O5ch, Occh; Oaeh, Ocbh, O7eh, Ocbh, Obeh, O20h, O1ch, Oe1h, Oe1h, O22h, O3dh, O5ch, Oe1h, O22h, O5fh, O5ch; Ofdh, Ocbh, O1h, Ofeh, Ocdh, Ob9h, O21h, O2ah, O5fh, O5ch, Ofdh, O36h, O26h, O00h, O22h, O5dh; O5ch, O18h, O17h, O2ah, O63h, O5ch, Oedh, O5h, O61h, O5ch, O37h, Oedh, O52h, O44h, Oddh, Ocdh; Ob2h, O2ah, Ocdh, Offh, O2ah, O18h, O03h, Ocdh, Ofch, O1fh, Ocdh, O4eh, O20h, Ocah, Oc1h, O20h; Oc9h, O2ah, O61h, O5ch, O22h, O5dh, O5ch, Odfh, Ofeh, Oe2h, O28h, O0ch, O3ah, O71h, O5ch, Ocdh; O59h, O1ch, Offh, Ofeh, O0dh, Oc8h, Ocfh, O1fh, Ofeh, Oe2h, O28h, Ocfh, O10h, O2ah, O51h; O5ch, O23h, O23h, O23h, O23h, O7eh, Ofeh, O4bh, Oc9h, Oe7h, Ocfh, O12h, O1h, O1h, O1h, O5eh; O2ch, O28h, Offh, Ofeh, O3bh, O28h, Of2h, Oc3h, O8ah, O1ch, Offh, Od9h, Od8h, Offh, O1fh, O1fh; Od8h, Offh, Ofeh, O3bh, O28h, Offh, Oc3h, O8ah, O1ch, O1h, Oa7h, Ocdh, O3fh; Od8h, Offh, O1h, O1h, O4h, Oc9h, Offh, O1ch, O1h, Oa7h, Ocdh, O1h, O1h, O1h, O1h, O1h; Ocdh, O94h, O1eh, O57h, O1fh, O1h, O7ah, O4h, O1h, O2h, O0h, O28h, O1h, O4h; O22h, Oceh, 000h, O28h, O56h, Offh, O7ah, O6h, O01h, O20h, O00h, O28h, O1h, O4h;</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Us1h, Usah, Us1h, Uesh, Utah, Ucah, Us0h, Us0h, Usah, Uu4h, Ueah, U13h, Usah, Usch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cbh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 022h, 03dh, 05ch, 0e1h, 022h, 05fh, 05ch; 0fdh, 0cbh, 001h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 036h, 026h, 000h, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 052h, 044h, 04dh, 0cdh; 0b2h, 02ah, 061h, 0ffh, 02ah, 018h, 003h, 0cdh, 0fch, 01fh, 0cdh, 02ah, 0c1h, 020h; 0c9h, 02ah, 061h, 05ch, 022h, 05dh, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 059h, 01ch, 0dfh, 0feh, 00dh, 0c8h, 0cfh, 00bh, 0cdh, 030h, 025h, 0c8h, 0cfh, 010h, 02ah, 051h; 05ch, 023h, 023h, 023h, 023h, 07eh, 0feh, 04bh, 0c9h, 0e7h, 0cdh, 0ffh, 01h, 02ah, 0ffh; 02ch, 028h, 0ffh, 0feh, 03bh, 028h, 0ffh, 0c3h, 01ch, 0feh, 0d9h, 0d8h, 0feh, 0dfh; 02ch, 028h, 0ffh, 0ffh, 0d7h, 07ah, 0d7h, 0c9h, 0d6h, 011h, 0ceh, 000h, 028h, 01fh, 0ffh; 0cdh, 094h, 01eh, 057h, 0f1h, 0d7h, 07ah, 0d7h, 0c9h, 0d6h, 011h, 0ceh, 000h, 028h, 01dh, 0d6h; 002h, 0ceh, 000h, 028h, 0feh, 01h, 07ah, 00ch, 001h, 020h, 004h, 007h, 007h, 007h, 007h, 004h; 002h, 0ceh, 000h, 028h, 0feh, 01h, 07ah, 006h, 001h, 02h, 01h, 007h, 007h, 007h, 007h, 006h, 004h; 002h, 0ceh, 000h, 028h, 01ch, 07h, 02h, 06h, 01h, 02h, 004h, 007h, 007h, 006h, 004h;</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Us1h, Usah, Us1h, Uesh, Usah, Usah, Usah, Uush, Uush, Uush, Usah, U</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Us1h, Usah, Us1h, Uesh, Utah, Ucoh, Us0h, Usch, Usah, Uu4h, Ueah, U13h, Usah, Usch; 02ah, 061h, 05ch, Ocdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cbh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 022h, 03dh, 05ch, 0e1h, 022h, 05fh, 05ch; 0fdh, 0cbh, 001h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 036h, 026h, 000h, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 052h, 044h, 0ddh; 0b2h, 02ah, 0cdh, 0ffh, 02ah, 018h, 003h, 0cdh, 0fch, 01fh, 0cdh, 04eh, 020h, 0cah, 0c1h, 020h; 0c9h, 02ah, 061h, 05ch, 022h, 05dh, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 059h, 01ch, 0dfh, 0feh, 00dh, 0c8h, 0cfh, 00bh, 0cdh, 03h, 025h, 0c8h, 0cfh, 010h, 02ah, 051h; 05ch, 023h, 023h, 023h, 07eh, 0feh, 04bh, 0c9h, 0e7h, 0cdh, 0f2h, 021h, 0d8h, 0dfh, 0feh; 02ch, 028h, 0f6h, 0feh, 03bh, 028h, 0f2h, 0c3h, 08ah, 01ch, 0feh, 0d9h, 0d8h, 0feh, 0dfh; 03fh; 0d8h, 0f5h, 0e7h, 0f1h, 0d6h, 0c9h, 0f5h, 0cdh, 082h, 01ch, 0f1h, 0a7h, 0cdh, 0c3h, 01fh; 0d6h; 0c9h, 02ah, 01h, 0f1h, 0d7h, 07ah, 0d7h, 0c9h, 0d6h, 011h, 0ceh, 000h, 028h, 01dh, 0d6h; 0ch, 094h, 01eh, 057h, 0f1h, 0d7h, 07ah, 0d7h, 0c9h, 0d6h, 01h, 0ceh, 000h, 028h, 01dh, 0d6h; 0ch, 0ceh, 000h, 028h, 056h, 0feh, 01h, 07ah, 006h, 001h, 020h, 004h, 007h, 007h, 006h, 004h; 04fh, 07ah, 0feh, 002h, 030h, 016h, 079h, 021h, 091h, 05ch, 018h, 038h, 07ah, 006h, 007h, 038h; 005h, 007h, 007h, 006h, 038h, 04fh, 07ah, 0feh, 00ah, 038h, 07ah, 006h, 007h, 038h;</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, 0esh, 0esh, 0sh, 0sh, 0sh, 0sh, 0soh, 0soh, 0sh, 0sh, 0sh, 0sh, 0sh, 0sh, 0sh, 0s</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, 0esh, 0esh, 0sh, 0sh, 0sh, 0sh, 0soh, 0sh, 0sh, 0sh, 0sh, 0sh, 0sh, 0sh, 0s</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, 0esh, 0esh, 0sh, 0sh, 0sh, 0sh, 0soh, 0sh, 0sh, 0sh, 0sh, 0sh, 0sh, 0sh, 0s</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Us1h, Usah, Us1h, Uesh, Usah, Usah, Usah, Uush, Uush, Uush, Usah, U</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Us1h, Usah, Us1h, Uesh, Utah, Ucoh, Us0h, Us6h, Us6h, Us6h, Uu4h, Ueah, Utah, Usch, Usah, Usch; 02ah, 061h, 05ch, Ocdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cbh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 021h, 022h, 03dh, 05ch, 0e1h, 022h, 05fh, 05ch; 0fdh, 0cbh, 001h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 036h, 026h, 000h, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 052h, 044h, 0ddh; 0cdh; 0b2h, 02ah, 0cdh, 0ffh, 02ah, 018h, 003h, 0cdh, 0fch, 01fh, 0cdh, 04eh, 020h, 0cah, 0c1h, 020h; 0c9h, 02ah, 061h, 05ch, 022h, 05dh, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 059h, 01ch, 0dfh, 0feh, 00dh, 0c8h, 0cfh, 00bh, 0cdh, 03h, 025h, 0c8h, 0cfh, 010h, 02ah, 051h; 05ch, 023h, 023h, 023h, 07ah, 0feh, 04bh, 0c9h, 0e7h, 0cdh, 0f2h, 021h, 0d8h, 0dfh, 0feh; 02ch, 028h, 0f6h, 0feh, 03bh, 028h, 0f2h, 0c3h, 08ah, 01ch, 0feh, 0d9h, 0d8h, 0feh, 0dfh, 03fh; 0d8h, 0f5h, 0e7h, 0f1h, 0d6h, 0c9h, 0f5h, 0cdh, 082h, 01ch, 0f1h, 0a7h, 0cdh, 0c3h, 01fh, 0f5h; 0cdh, 094h, 01eh, 057h, 0f1h, 0d7h, 07ah, 0d7h, 0c9h, 0d6h, 011h, 0ceh, 000h, 028h, 01dh, 0d6h; 002h, 0ceh, 000h, 028h, 056h, 0feh, 01h, 07ah, 0d7h, 0c9h, 0d6h, 01h, 0ceh, 000h, 028h, 01dh, 0d6h; 0dfh, 07ah, 0feh, 002h, 030h, 016h, 079h, 021h, 091h, 05ch, 018h, 038h, 07ah, 006h, 007h, 038h; 005h, 007h, 007h, 007h, 006h, 038h, 04fh, 07ah, 0feh, 00ah, 038h, 02ah, 02ah, 02ah, 021h, 08fh; 05ch, 0feh, 008h, 038h, 00bh, 07eh, 028h, 05ch, 0feh, 00ah, 038h, 00ah, 038h, 00ah, 07h, 03h; 05ch, 0feh, 008h, 038h, 00bh, 07eh, 028h, 05ch, 0feh, 00ah, 038h, 00ah, 07h, 06h, 038h; 05ch, 0feh, 008h, 038h, 00bh, 07eh, 028h, 007h, 0bh, 027h, 06h, 024h, 028h, 001h, 078h, 04fh; 079h, cdh, 06ch, 022h, 03eh, 007h, 0bah, 07h, 008h, 024h, 024h, 03ah, 00fh, 006h, 038h; 020h, 008h, 008h, 038h, 0aeh, 077h,</pre>	
defb defb defb defb defb defb defb defb	05ch, Uesh, Usin, Usin, Usin, Usin, Usin, Usin, Usin, Usin, Usin, Uuh, Ueah, Uih, Usin, Us	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Us1h, Usah, Us1h, Uesh, Utah, Ucoh, Us0h, Us6h, Us6h, Us6h, Uu4h, Ueah, Utah, Usch, Usah, Usch, 02ah, 061h, 05ch, Ocdh, Oa7h, O11h, Ofdh, O36h, O20h, Offh, Ocdh, O2ch, O0fh, Ofdh, Ocbh, O01h; 0beh, Ocdh, Ob9h, O21h, O18h, O03h, Occh, O2ch, O0fh, Ofdh, O36h, O22h, O00h, Ocdh, Odfh, O1h; 020h, O0ah, Ocdh, O1dh, O11h, Oedh, O2ch, O1ch, Oelh, O36h, O36h, O22h, O1h, O1h, O5ch, Ocbh; 0aeh, Ocbh, O7eh, Ocbh, Obeh, O20h, O1ch, Oelh, Oelh, O22h, O3dh, O5ch, O1eh, O22h, O5fh, O5ch; 0fdh, Ocbh, O1h, Ofeh, Ocdh, Ob9h, O21h, O2ah, O5fh, O5ch, Ofdh, O36h, O26h, O00h, O22h, O5dh; 05ch, O18h, O17h, O2ah, O63h, O5ch, Oedh, O5h, O61h, O5ch, O37h, Oedh, O52h, O44h, Oddh; 05ch, O2ah, Ocdh, Offh, O2ah, O18h, O03h, Ocdh, Ofch, O1fh, Ocdh, O4eh, O20h, Ocah, Oc1h, O20h; 0c9h, O2ah, O61h, O5ch, O22h, O5dh, O5ch, Odfh, Ofeh, Oe2h, O28h, O0ch, O3ah, O71h, O5ch, Ocdh; 059h, O1ch, Odfh, Ofeh, O0dh, Oc8h, Ocfh, O1bh, Ocdh, O2h, O25h, Oc8h, Ocfh, O10h, O2ah, O51h; 05ch, O23h, O23h, O23h, O7ah, Ofeh, O4bh, Oc9h, Oe7h, Ocdh, Of2h, O1h, O4eh, Odfh, O1eh; 02sh, O23h, O23h, O23h, O7eh, Ofeh, O4bh, Oc9h, Oe7h, Ocdh, Of2h, O1h, O4ah, Odfh, O1fh, Ofeh; 02ch, O28h, Offh, Ofeh, O3bh, O2fh, Ocfh, O1h, O1h, Ofeh, Od9h, Od8h, Ofeh, Odfh, O1fh; 0d8h, Offh, Ofeh, O3bh, O28h, Offh, Ocdh, O82h, O1ch, Offh, Oa7h, Odch, O3h, O1fh, Offh; 0d8h, Offh, Ofeh, O3bh, O2h, Odfh, Ocfh, O1h, O2h, Oddh, O1h, Och, O3h, O1fh, Offh; 0d2h, Oceh, O0h, O28h, O56h, Ofeh, O1h, O7ah, Odfh, O1h, O2h, Oddh, O1h, O7h, O06h, O04h; 0d7h, O7h, O07h, O06h, O38h, O4fh, O7h, O2h, Od6h, O1h, O2h, Odfh, O1h, O3h, O1h, O3h; 0b5h, O07h, O07h, O07h, O06h, O38h, O4fh, O7h, O2h, Odfh, O2h, O2h, O2h, O2h, O3h, O1h, O3h; 0fh, Och, O2h, O3eh, O7h, Oah, Oghh, Och, O3h, O2h, Odfh, O2h, O2h, O3h, O1h, O7h, O3h; 0fh, Och, O2h, O3eh, O7h, Obh, O7h, Och, O2h, O2h, O2h, O2h, O2h, O3h, O1h, O7h; 0fh, Och, O2h, O3h, O1h, O7h, Oah, Ofh, Och, O2h, O2h, O2h, O3h, O1h, O7h; 0fh, Och, O2h, O3h, O1h, O7h, O2h, Odh, O2h, O2h, O2h, O3h, O0h, O3h; 0fh, Och, O2h, Oaeh, O7h, Oah, Oghh, Och, O2h, O3h,</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, 0esh, 0esh, 0sh, 0sh, 0sh, 0sh, 0soh, 0sh, 0sh, 0sh, 0sh, 0sh, 0sh, 0sh, 0s</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, Uesh, Us1h, Usah, Us1h, Uesh, Utah, Ucoh, Us0h, Usah, Uu4h, Ueah, Utah, Usah, Usah, Usch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 000h, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cbh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 022h, 03dh, 05ch, 01eh, 022h, 05fh, 05ch; 0fdh, 0cbh, 001h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 036h, 026h, 000h, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 052h, 044h, 0ddh, 0cdh; 0b2h, 02ah, 0cdh, 0ffh, 02ah, 018h, 003h, 0cdh, 0fch, 01fh, 0cdh, 04eh, 020h, 0cah, 0c1h, 020h; 0c9h, 02ah, 061h, 05ch, 022h, 05dh, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 059h, 01ch, 0dfh, 0feh, 00dh, 0c8h, 0cfh, 00bh, 0cdh, 03h, 025h, 0c8h, 0cfh, 010h, 02ah, 051h; 05ch, 023h, 023h, 023h, 07ah, 0feh, 04bh, 0c9h, 0e7h, 0cdh, 0ffh, 01h, 02ah, 051h; 05ch, 023h, 023h, 023h, 07eh, 0feh, 04bh, 0c9h, 0e7h, 0cdh, 0ffh, 01h, 0dfh, 0feh; 02ch, 028h, 0f6h, 0feh, 03bh, 028h, 0ffh, 0cdh, 082h, 01ch, 0f1h, 0a7h, 0cdh, 0dfh, 0ffh; 0d8h, 0f5h, 0e7h, 0f1h, 0d7h, 07ah, 0d7h, 0c9h, 0d6h, 011h, 0ceh, 000h, 028h, 01dh, 0d6h; 002h, 0ceh, 000h, 028h, 056h, 0feh, 001h, 07ah, 06h, 01h, 02h, 007h, 00fh, 007h, 006h, 004h; 04fh, 07ah, 0feh, 03bh, 016h, 07h, 021h, 091h, 05ch, 018h, 038h, 07ah, 006h, 007h, 038h; 05ch, 0feh, 008h, 038h, 04fh, 07ah, 0feh, 00ah, 038h, 002h, 0cfh, 013h, 021h, 08fh; 05ch, 0feh, 008h, 038h, 00ah, 07eh, 028h, 07ah, 026h, 022h, 007h, 007h, 066h, 050h, 047h; 03eh, 008h, 0bah, 03h, 0aeh, 07h, 02ah, 07h, 02ah, 02ah, 02ah, 03h, 00dh, 07h; 03ch, 008h, 0bah, 03h, 0aeh, 07h, 0ah, 0feh, 008h, 02ah, 04h, 0feh, 00ah, 03h, 0dh, 07h; 03ch, 008h, 0bah, 04h, 04h, 0feh, 07h, 07h, 0cfh, 018h, 03kh, 0cdh, 04h, 0feh; 02h, 003h, 00fh, 00ah, 04h, 07h, 07h, 00fh, 00fh, 018h, 0dah, 04h, 04h; 02h, 03h, 04h, 04h, 04h, 07h, 07h, 07h, 0cfh, 018h, 03h, 0cdh</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, 0esh, 0esh, 0sh, 0sh, 0sh, 0sh, 0sh, 0sh, 0sh, 0</pre>	
defb defb defb defb defb defb defb defb	05ch, 0esh, 021h, 03ah, 021h, 0esh, 01ch, 0coh, 030h, 06ch, 028h, 004h, 0eah, 01sh, 03ah, 03ch; 02ah, 061h, 05ch, 0cch, 0a7h, 011h, 0fch, 036h, 020h, 0ffh, 0cch, 00fh, 0fch, 0cbh, 001h; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cch, 02ch, 00fh, 0fch, 03ch, 022h, 000h, 0cch, 0dch, 021h; 020h, 00ah, 0cch, 01h, 011h, 0ech, 04bh, 082h, 05ch, 0cch, 0d9h, 00dh, 021h, 071h, 05ch, 0cch; 0aeh, 0cbh, 07eh, 0cch, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 036h, 02ch, 000h, 02zh, 05dh; 0fch, 0cbh, 001h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 01fh, 03ch, 02bh, 02bh, 02ah, 0cdh, 0ffh, 02ah, 063h, 05ch, 0edh, 05h, 0flh, 05ch, 037h, 0edh, 05sh, 04dh, 0cdh; 0b2h, 02ah, 0cdh, 0ffh, 02ah, 018h, 003h, 0cdh, 0fch, 01fh, 0cdh, 04eh, 020h, 0cah, 0c1h, 020h; 0c9h, 02ah, 0flh, 0feh, 00dh, 0c8h, 0cfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 059h, 01ch, 0ffh, 0feh, 00dh, 0c8h, 0cfh, 0dbh, 0c9h, 0e7h, 0c8h, 0cfh, 010h, 02ah, 051h; 05ch, 023h, 023h, 023h, 023h, 07eh, 0feh, 04bh, 0c9h, 0e7h, 0cdh, 0f2h, 021h, 0d8h, 0dfh, 0feh; 02ch, 028h, 0f6h, 0feh, 03bh, 028h, 0f2h, 0c3h, 08ah, 01ch, 0f1h, 0a7h, 0cdh, 0dfh, 0ffh; 0d8h, 0f5h, 0e7h, 0f1h, 0d7h, 07ah, 0d7h, 0c9h, 0d6h, 011h, 0ceh, 000h, 028h, 01fh, 0f5h; 0cdh, 094h, 01eh, 057h, 0f1h, 0d7h, 07ah, 0d7h, 0c9h, 0d6h, 011h, 0ceh, 000h, 028h, 01dh, 0d6h; 002h, 0ceh, 000h, 028h, 056h, 0feh, 001h, 07ah, 0fh, 001h, 02h, 004h, 007h, 007h, 006h, 004h; 04fh, 07ah, 0feh, 002h, 030h, 016h, 079h, 021h, 091h, 03ch, 018h, 038h, 07ah, 006h, 007h, 038h; 05h, 007h, 007h, 007h, 008h, 038h, 04fh, 07ah, 0feh, 00ah, 038h, 002h, 028h, 01h, 078h; 05ch, 0feh, 008h, 038h, 00bh, 07eh, 028h, 077h, 06ch, 022h, 007h, 007h, 06h, 080h; 020h, 003h, 00fh, 0aeh, 0ah, 0aeh, 077h, 023h, 078h, 0c9h, 09fh, 07ah, 06h, 030h; 020h, 003h, 00fh, 0aeh, 0ah, 0aeh, 077h, 023h, 078h, 0c9h, 09fh, 07ah, 06h, 030h; 020h, 003h, 00fh, 0aeh, 0ah, 0aeh, 077h, 023h, 078h, 0c9h, 09fh, 07ah, 06h, 094h; 020h, 03h, 0ah, 0g4h, 0ah, 0feh, 007h, 007h, 0a8h; 0c9h, 02h, 0ah, 0g4h; 02h, 03h, 0ah, 0d3h, 0feh, 007h, 007h, 007h, 0a8h; 0c9h,	
defb defb defb defb defb defb defb defb	<pre>05ch, 0esh, 021h, 03ah, 021h, 0esh, 01ch, 0coh, 030h, 06ch, 02sh, 004h, 0ech, 01sh, 03ah, 0sch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 036h, 00ch, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cch, 00th; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 036h, 022h, 000h, 0cdh, 0d6h, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 036h, 02ch, 00th, 02ch, 05ch; 0fdh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 022h, 03ch, 05ch, 0e1h, 022h, 05ch; 0fdh, 0cbh, 01h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05ch, 0fdh, 036h, 026h, 000h, 022h, 05ch; 0fdh, 0cbh, 01h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05ch, 0fdh, 03ch, 02ch, 04th, 04dh, 0cdh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 052h, 044h, 04dh, 0cdh; 0b2h, 02ah, 0cdh, 0ffh, 02ah, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 0c9h, 02ah, 0cdh, 0feh, 00dh, 0csh, 0cfh, 00bh, 0cdh, 03h, 025h, 0c8h, 0cfh, 010h, 02ah, 051h; 05ch, 023h, 023h, 023h, 02dh, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 05h, 01ch, 0dfh, 0feh, 00dh, 0c8h, 0cfh, 00bh, 0cdh, 03h, 01h, 0dh, 0dfh, 0feh; 02ch, 028h, 01fh, 0feh, 03bh, 028h, 0fch, 0csh, 0sah, 01ch, 0feh, 0ddh, 0dfh, 0feh; 02ch, 028h, 01fh, 0feh, 03bh, 028h, 0f5h, 0cdh, 08ah, 01ch, 0feh, 0ddh, 0ddh, 0dfh, 0feh; 02ch, 028h, 01fh, 0dfh, 0c9h, 0f5h, 0cdh, 08ah, 01ch, 0fh, 0a7h, 0cdh, 0c3h, 01fh, 0f5h; 0cdh, 094h, 01eh, 057h, 0f1h, 0d7h, 07ah, 0d7h, 07ah, 0dfh, 01h, 02ch, 000h, 028h, 01dh, 0d6h; 002h, 0ceh, 000h, 028h, 056h, 0feh, 001h, 07ah, 0dfh, 001h, 07ah, 0dfh, 007h, 007h, 006h, 004h; 04fh, 07ah, 0feh, 002h, 030h, 016h, 07ah, 0d7h, 0c3h, 038h, 07ah, 0dfh, 0dfh, 0fh; 05ch, 0feh, 008h, 038h, 04fh, 07ah, 0feh, 00ah, 038h, 002h, 0cfh, 013h, 021h, 08fh; 05ch, 0feh, 008h, 038h, 04fh, 07ah, 0feh, 008h, 02fh, 07ah, 0fh, 00fh, 008h; 02h, 003h, 0dh, 0aeh, 0ah, 0aeh, 077h, 023h, 078h, 0cfh, 07ah, 0fh, 00fh, 080h; 02h, 003h, 0dh, 0aeh, 0ah, 0aeh, 077h, 023h, 078h, 0cfh, 02h, 03h, 0dh, 07h; 03eh, 008h, 0bh, 0fh, 0aeh, 0ah, 0fh, 00fh, 00fh, 00fh, 018h, 0d8h, 0cdh, 09h, 0dah, 0feh; 08h,</pre>	
defb defb defb defb defb defb defb defb	<pre>05ch, 0esh, 021h, 03ah, 021h, 0esh, 01ch, 0cch, 030h, 06ch, 02sh, 004h, 0ech, 07sh, 03ah, 0sch; 02ah, 061h, 05ch, 0cch, 01h, 01h, 00sh, 0cch, 03ch, 00ch, 0fth, 0cch, 02ch, 00th, 0cch, 00th; 0beh, 0cch, 0bsh, 021h, 01sh, 00sh, 0cch, 02ch, 00th, 0fth, 0cdh, 02ch, 00th, 0cch, 0dsh, 02th; 02ch, 00ah, 0cch, 01ch, 01h, 0ech, 04bh, 082h, 05ch, 0cch, 0dsh, 05ch, 0e1h, 02zh, 05th; 0fdh, 0cbh, 00th, 0feh, 0cch, 0bsh, 021h, 02ah, 05th, 05ch, 0fdh, 03ch, 05ch, 00th, 02ch, 05th; 0fdh, 0cbh, 001h, 0feh, 0cch, 0bsh, 02ch, 02th, 05ch, 0fdh, 03ch, 05ch, 04th, 04dh, 0cch; 05ch, 01sh, 01h, 02ah, 06sh, 05ch, 0edh, 05bh, 06th, 05ch, 0fdh, 03ch, 05ch, 04th, 04dh, 0cch; 0bsh, 02ah, 0cdh, 0fth, 02ah, 05ch, 0dth, 0feh, 0ech, 02sh, 00ch, 03ah, 07th, 05ch, 0cdh; 05h, 01ah, 0fth, 0feh, 0dh, 0csh, 0cfh, 0feh, 0ech, 02sh, 0cch, 03ah, 07th, 05ch, 0cdh; 05h, 01ch, 0dth, 0feh, 0dh, 0csh, 0fth, 0feh, 0ech, 02sh, 0cch, 03ah, 07th, 05ch, 0cdh; 05h, 01ch, 0dfh, 0feh, 0dh, 0csh, 0fth, 0csh, 0erh, 0cdh, 0fth, 02th, 0dth, 0feh; 02ch, 02sh, 0feh, 0fh, 0csh, 0fth, 0csh, 0csh, 0crh, 0fth, 0dth, 0feh; 02ch, 02sh, 0fth, 0fth, 0dth, 0csh, 0fth, 0csh, 0erh, 0dth, 0fth, 0dth, 0fth; 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0rah, 0dth, 0csh, 0th, 0fth, 0arh, 0cch, 0csh, 01th, 0fth; 0dth, 0fth, 0fth, 0fth, 0fth, 0rah, 0fth, 0csh, 0th, 0fth, 0arh, 0cch, 0csh, 0th, 0fth; 0fth, 0rah, 0fth, 0fth, 0fth, 0fth, 0rah, 0fth, 0dth, 0fth, 0dth, 0fth; 0dth, 0fth, 0fth, 0fth, 0fth, 0fth, 0rah, 0fth, 0dth, 0fth, 0dth, 0fth; 0fth, 0rah, 0fth, 0dth, 0sh, 0fth, 0fth, 0fth, 0fth, 0dth, 0fth, 0dth, 0fth; 0fth, 0fth, 00th, 02sh, 0fth, 0fth, 0fth, 0fth, 0fth, 0dth, 0fth, 0fth, 0fth, 0fth; 0fth, 0fth, 0fth; 0fth, 0fth, 0fth, 0dth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth; 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth; 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth; 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth; 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth, 0fth</pre>	
defb defb defb defb defb defb defb defb	<pre>02ch, 0ech, 021h, 03ah, 021h, 0ech, 03ch, 03ch, 03ch, 02ch, 02ch, 04h, 0ech, 01sh, 05ch; 02ah, 061h, 05ch, 0cdh, 0a7h, 011h, 0fdh, 03ch, 000h, 0ffh, 0cdh, 02ch, 00fh, 0fdh, 0cbh, 00lh; 0beh, 0cdh, 0b9h, 021h, 018h, 003h, 0cdh, 02ch, 00fh, 0fdh, 03ch, 021h, 01h, 05ch, 0cbh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 02ch, 03dh, 05ch, 0e1h, 022h, 05fh; 0fdh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 0e1h, 02ch, 03dh, 05ch, 0e1h, 022h, 05fh; 0fdh, 0cbh, 01h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 03ch, 02ch, 00dh, 022h, 05dh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 05ch, 0cdh, 0deh, 0clh, 020h; 0ch, 02ah, 0cdh, 0ffh, 02ah, 01h, 05ch, 0dfh, 0feh, 0e2h, 028h, 00ch, 03ah, 071h, 05ch, 0cdh; 05h, 01ch, 0dfh, 0feh, 00dh, 0c8h, 0cfh, 01h, 0cdh, 03h, 025h, 0c8h, 0cfh, 01h, 02ah, 051h; 05ch, 023h, 023h, 023h, 023h, 0feh, 0feh, 0dbh, 0c9h, 0e7h, 0cdh, 0feh, 0dfh, 0feh; 02ch, 02ah, 0ffh, 0feh, 03bh, 028h, 0fch, 00sh, 0csh, 01h, 0feh, 0d4h, 0dfh, 0feh; 02ch, 02ah, 0ffh, 0feh, 03bh, 028h, 0fch, 082h, 01ch, 0f1h, 0a7h, 0cdh, 03h, 01fh, 0f5h; 0cdh, 094h, 01eh, 057h, 0f1h, 0d7h, 0rah, 0d6h, 01h, 0f1h, 0a7h, 0cdh, 03h, 01fh, 0f5h; 0cdh, 094h, 01eh, 057h, 0f1h, 0d7h, 0rah, 0d6h, 001h, 02ch, 01h, 007h, 00fh, 00dh; 04fh, 07ah, 0feh, 002h, 030h, 01h, 07ah, 06ch, 002h, 01h, 00ch, 007h, 007h, 006h, 004h; 04fh, 07ah, 0feh, 002h, 030h, 01h, 07ah, 06h, 001h, 02ch, 01h, 037h, 01h, 03h; 005h, 007h, 007h, 007h, 007h, 028h, 09fh, 0cah, 038h, 02h, 04h, 07ah, 06h, 007h, 03h; 05h, 007h, 007h, 007h, 008h, 02ah, 07h, 02h, 04h, 04h, 02h, 03h, 01h; 04h, 06h, 03ah, 04h, 07h, 02ah, 07h, 06h, 02h, 03h, 01h, 07h, 06h, 03h; 05h, 07h, 007h, 007h, 00h, 03ah, 04h, 07h, 06h, 02h, 03h, 02h, 03h, 02h, 04h; 07h, 0cdh, 06ch, 02h, 03ah, 04h, 07h, 06h, 02h, 02h, 02h, 07h, 07h, 06h, 03h; 05h, 007h, 007h, 007h, 00ah, 02h, 07h, 007h, 06h, 02h, 02h, 03h, 04h, 07h; 02h, 00ah, 04h, 04h, 04h, 07h, 07h, 06h, 02h, 02h, 04h, 04h, 07h, 01h, 03h; 02h, 00ah, 0ah, 04h, 04h, 04h, 07h, 07h, 06h, 02h, 02h, 04h, 04h, 04h, 04h;</pre>	
defb defb defb defb defb defb defb defb	02ch, 0ech, 021h, 03ah, 021h, Vesh, Vian, 0cch, 030h, 00ch, 028h, 004h, 0ech, 013h, 03ch, 03ch; 02ah, 061h, 05ch, 0cdh, 0a1h, 011h, 0fdh, 03ch, 000h, 0ffh, 0cdh, 02ch, 00h, 0cdh, 0cdh, 021h; 020h, 00ah, 0cdh, 01dh, 011h, 0edh, 04bh, 082h, 05ch, 0cdh, 0d9h, 00dh, 021h, 071h, 05ch, 0cch; 0aeh, 0ch, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 02h, 03dh, 03ch, 02ch, 03ch, 02ch, 05ch; 0fdh, 0ch, 01h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 03ch, 02ch, 03ch, 02ch, 05ch; 0fdh, 0ch, 01h, 0feh, 0cdh, 0b9h, 021h, 02ah, 05fh, 05ch, 0fdh, 03ch, 02ch, 03ch, 02h, 05ch; 0fdh, 0ch, 01h, 0feh, 02ah, 05sh, 0edh, 05bh, 061h, 05ch, 037h, 0edh, 05ch, 02h, 02ch, 05ch; 0b2h, 02ah, 061h, 05ch, 02ah, 01h, 05ch, 0dfh, 0feh, 0e2h, 02sh, 0ceh, 0ah, 0c1h, 02ch; 059h, 01ch, 0dfh, 0feh, 02ah, 05sh, 05ch, 0dfh, 0feh, 0e2h, 02sh, 0ceh, 0ah, 01h, 05ch, 0cdh; 059h, 01ch, 0dfh, 0feh, 03h, 02sh, 05ch, 0dfh, 0feh, 0e2h, 02sh, 0ceh, 0dh, 01h, 0feh; 02ch, 023h, 023h, 023h, 023h, 07eh, 0feh, 04bh, 0c9h, 0e7h, 0cdh, 0f2h, 021h, 0d8h, 0feh; 02ch, 02sh, 0feh, 0feh, 03h, 02sh, 0f2h, 0c3h, 08ah, 01ch, 0feh, 0d4h, 0d3h, 0feh; 0dh, 0fsh, 0feh, 0fh, 0feh, 03h, 0fh, 0fh, 0c9h, 0e7h, 0cdh, 0fh, 0d7h, 0fh; 0dh, 0fsh, 0e7h, 0f1h, 0dfh, 0c9h, 0f5h, 0cdh, 001h, 0ch, 0dh, 0dh, 0dh; 0dh, 0fh, 0fh, 0feh, 03h, 01h, 07h, 0d7h, 0c9h, 0dh, 01h, 0a7h, 0cdh, 0c3h, 01fh, 0f5h; 0cdh, 09h, 01eh, 057h, 0f1h, 0dfh, 07h, 0d7h, 0c9h, 0dh, 01h, 02h, 00th, 00th, 00th, 0dh; 0dfh, 07h, 007h, 00fh, 03h, 0dfh, 07ah, 0dh, 00th, 02h, 0dfh, 01h, 0fh; 0fh, 07h, 07h, 00fh, 03h, 0dfh, 07ah, 0fh, 00h, 02h, 0dfh, 01h, 0fh; 0fh, 07h, 07h, 00fh, 03h, 0dfh, 07ah, 0fh, 0dh, 0cfh, 02h, 0fh; 013h, 02h, 0dh; 0fh, 0dh, 0deh, 03h, 0dh, 0fh; 0fh, 0fh, 0dh, 0cfh, 0cfh, 0dh, 0fh; 0dh, 0dh; 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0fh; 0dh, 0dh, 0ch, 0dh, 0fh; 0dh, 0dh, 0dh; 0dh; 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0fh; 0dh, 0dh, 0dh; 0dh, 0dh; 0dh; 0dh; 0dh, 0dh, 0dh, 0dh, 0dh; 0dh, 0fh; 0dh, 0dh; 0dh; 0dh; 0dh; 0dh; 0dh; 0dh, 0dh; 0dh, 0dh; 0dh; 0dh; 0dh; 0dh; 0dh; 0dh; 0dh;	
defb defb defb defb defb defb defb defb	<pre>02ch, 0esh, 02fh, 03ah, 02fh, 0esh, 0fah, 0cbh, 03oh, 06eh, 02ch, 0efh, 0fah, 03ch, 03ch, 03ch, 02ch, 0ath, 03ch, 02ch, 00fh, 0fah, 02ch, 00fh, 0fah, 03ch, 02ch, 01h; 02ch, 00ah, 0cdh, 01h, 01h, 0edh, 04bh, 082h, 05ch, 0cdh, 0dyh, 02h, 07th, 0fah, 02ch, 0bh; 0aeh, 0cbh, 07eh, 0cbh, 0beh, 020h, 01ch, 0e1h, 02th, 03ch, 03ch, 02ch, 00th, 02ch, 05ch; 0fdh, 0cbh, 01h, 0feh, 0cdh, 09h, 021h, 02ah, 05ch, 0fdh, 03ch, 02ch, 00th, 02ch, 05ch; 0fdh, 0cbh, 01h, 0feh, 0cdh, 05h, 02th, 02ch, 05ch, 0fdh, 03ch, 02ch, 00th, 02ch, 05ch; 0fdh, 0cbh, 01h, 0feh, 0cdh, 05h, 02th, 02ch, 0fch, 03ch, 02ch, 04th, 04dh, 0cdh; 05ch, 01ah, 01h, 0feh, 0cdh, 05ch, 0edh, 05bh, 06th, 05ch, 01dh, 05ch, 04th, 04dh, 0cdh; 0bch, 02ah, 0cdh, 0ffh, 02ah, 01ah, 003h, 0cdh, 0fch, 01fh, 0cdh, 04eh, 02h, 0cah, 0c1h, 02ch, 0cgh, 02ah, 06th, 05ch, 02zh, 05ch, 0dfh, 0feh, 02h, 02ah, 0cth, 01h, 0csh, 0cdh; 05sh, 01ch, 0dfh, 0feh, 03dh, 0cfh, 0feh, 0dh, 02sh, 0cfh, 01h, 0cfh, 01h, 0csh, 0cdh; 05sh, 01ch, 0dfh, 0feh, 03bh, 02sh, 0fch, 00sh, 0cfh, 01ch, 0dfh, 0feh; 02ch, 02sh, 0ffh, 0feh, 03bh, 02sh, 0fch, 0dh, 0cfh, 01ch, 0dfh, 0ffh; 0dh, 0ffh, 0feh, 03bh, 02sh, 0fch, 0dh, 0cgh, 0dfh, 01th, 0cch, 0c3h, 01fh, 0ffh; 0dh, 0ffh, 0feh, 05h, 0feh, 01h, 0dh, 0cgh, 0dfh, 01h, 0ch, 00h, 02sh, 01h, 0dfh; 0dh, 0ffh, 0feh, 05h, 0feh, 01h, 0dh, 0cgh, 0dh, 01h, 0ch, 00h, 00h, 00h, 00h, 0dh; 0dh, 0fh, 0fh, 0fh, 0fh, 0fh, 0fh, 0dh, 0fh, 0dh, 0dh, 01h, 0ch, 00h, 00th, 0dh; 0dh, 0fh, 0fh, 0dh, 0dh, 0fh, 0fh, 0fh, 0dh, 0dh, 0lh, 02h, 0dh, 0fh, 0fh; 0dh, 0fh, 0fh, 0dh, 0dh, 0fh, 0fh, 0fh, 0dh, 0dh, 0dh, 0dh, 0dh, 0dh; 0dh, 0fh, 0fh, 0dh, 0dh, 0dh, 0fh, 0fh, 0dh, 0dh, 0dh, 0dh, 0dh, 0dh; 0dh, 0fh, 0dh, 0dh, 0dh, 0fh, 0dh, 0fh, 0dh, 0dh, 0fh, 0dh, 0dh, 0dh; 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0fh, 0dh, 0fh, 0dh, 0dh, 0fh, 0dh, 0dh, 0fh; 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0fh, 0dh, 0dh, 0dh, 0fh, 0dh, 0dh, 0dh, 0fh; 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0fh, 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0d</pre>	
defb defb defb defb defb defb defb defb	<pre>02ch, 02sh, 02sh, 02sh, 02sh, 02sh, 02sh, 02sh, 00sh, 02sh, 00sh, 02sh, 00sh, 01sh, 03sh, 03sh, 03sh, 02sh, 01sh, 03sh, 03sh, 00sh, 02sh, 00sh, 01sh, 03sh, 03sh, 00sh, 02sh, 00sh, 01sh, 03sh, 0</pre>	
defb defb defb defb defb defb defb defb	D3ch, Uesh, Uzih, Usah, Uzih, Uesh, Utah, Ucah, Usah, Udah, Ucah, Ueah, Utah, Usah, Usa	
defb defb defb defb defb defb defb defb	<pre>02ah, 021h, 02ah, 021h, 02ah, 021h, 02ah, 02ah, 02ah, 00ah, 02ah, 01ah, 02ah, 03ah, 03ah, 03ah, 03ah, 03ah, 03ah, 02ah, 03ah, 03ah, 02ah, 03ah, 02ah, 03ah, 02ah, 03ah, 03ah, 02ah, 03ah, 02ah, 03ah, 03ah, 03ah, 02ah, 03ah, 03ah, 03ah, 02ah, 03ah, 03ah, 03ah, 02ah, 03ah, 0</pre>	
defb defb defb defb defb defb defb defb	<pre>02ah, 04ah, 02ah, 02ah, 02ah, 04ah, 04ah, 04ah, 04ah, 04ah, 04ah, 04ah, 04ah, 03ah, 0</pre>	
defb defb defb defb defb defb defb defb	<pre>02ch, 0esh, 021h, 0sh, 021h, 0esh, 01h, 0ch, 03h, 0ch, 0ch, 02h, 04h, 0eh, 07h, 03h, 03ch, 0ch; 02h, 061h, 05ch, 0ch, 0a7h, 01h, 01h, 02h, 00h, 01h, 0ch, 02h, 00h, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0c</pre>	
defb defb defb defb defb defb defb defb	<pre>02ah, 061h, 05ch, 0cdh, 03h, 021h, 06bh, 03h, 06ch, 02h, 00ch, 06ch, 07h, 03h, 03ch, 06ch; 02ah, 061h, 05ch, 0cdh, 03h, 01h, 06ch, 02ch, 00fh, 06th, 02ch, 00fh, 06th, 06ch, 06ch; 06ch, 06ch, 07ch, 0cdh, 01h, 0edh, 02ch, 00fh, 06ch, 02ch, 00dh, 02lh, 07h, 05ch; 06ch, 07ch, 0cdh, 01h, 01h, 0edh, 02h, 02h, 06ch, 06ch, 03h, 05ch, 06ch, 00h, 02ch, 05ch; 06ch, 07ch, 0ch, 07ch, 0ch, 0beh, 02ch, 01ch, 0e1h, 02ch, 03ch, 03ch, 06ch, 00h, 02ch, 05ch; 06ch, 07ch, 06ch, 07ch, 06ch, 06ch, 05ch, 06ch, 03ch, 06ch, 03ch, 06ch, 00ch, 02ch, 05ch; 06ch, 07ch, 06ch, 07ch, 06ch, 05ch, 06ch, 05ch, 06ch, 03ch, 06ch, 02ch, 06ch, 07ch, 06ch; 05ch, 01ah, 07ch, 06ch, 05ch, 06ch, 05ch, 06ch, 05ch, 06ch, 03ch, 06ch, 07ch, 06ch; 05ch, 01ah, 05ch, 022h, 05ch, 06ch, 05ch, 06ch, 06ch, 03ch, 02ch, 02ch, 06ch, 07ch; 05ch, 02ah, 06ch, 05ch, 022h, 05ch, 06ch, 06ch, 06ch, 06ch, 02ch, 02ah, 07ch, 06ch, 07ch, 06ch, 06ch, 07ch, 06ch, 07ch, 0</pre>	
defb defb defb defb defb defb defb defb	<pre>02ch, 0eSh, 021h, 0sh, 021h, 0eSh, 02nh, 0cbh, 03nh, 0cch, 02ch, 04h, 0cbh, 07sh, 03nh, 05ch; 02ch, 061h, 05ch, 0cdh, 02nh, 01th, 06ch, 02ch, 00fh, 0fh, 0cdh, 02ch, 00th, 0cdh, 0cdh, 0cbh, 021h; 02bh, 00ch, 01ch, 01th, 01th, 0edh, 02ch, 00th, 0eth, 02ch, 00dh, 02ch, 01th, 05ch, 0cbh; 0ech, 0cbh, 0ch, 0beh, 0cbh, 02bh, 01ch, 0e1h, 02ch, 03ch, 05ch, 01th, 02ch, 05ch; 0fdh, 0cbh, 01th, 0feh, 0cdh, 0byh, 021h, 02th, 05th, 05ch, 03th, 0ch, 02th, 02th, 03ch; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 06th, 05ch, 03th, 0edh, 02bh, 02ch, 0cdh; 05ch, 018h, 017h, 02ah, 063h, 05ch, 0edh, 05bh, 0feh, 02ch, 0dh, 02ch, 02ch, 0cdh; 05ch, 018h, 017h, 02ah, 01ch, 01th, 0cdh, 0feh, 01th, 0cdh, 0deh, 02ch, 0cdh, 02ch; 0cyh, 02ah, 0cdh, 0ffh, 02ah, 05ch, 0dfh, 0feh, 04bh, 0cch, 02ch, 02ch, 01ch, 0ffh, 0feh, 00dh, 0cch, 0feh, 0dfh, 0feh, 0dh, 0ffh, 0feh; 0cyh, 02ah, 0cdh, 0ffh, 02ah, 0feh, 0dbh, 0cch, 0fh, 0cdh, 0dch, 02ch, 0ddh, 0ffh; 0fh, 0ffh, 0feh, 0dh, 0feh, 0dbh, 0cch, 0ch, 0ch, 0cdh, 0ffh, 0feh, 0dbh, 0ffh; 0ffh, 0ffh, 0feh, 0dbh, 02sh, 0ffh, 0cdh, 0ffh, 0ffh, 0dh, 0ffh, 0ffh; 0dch, 0gh, 0ffh, 0feh, 0dbh, 0ffh, 0dh, 0dh, 0lh, 0lh, 0lh, 0dh, 0ffh, 0ffh; 0dh, 0ffh, 0ffh, 0feh, 0dbh, 0ffh, 0dh, 0ffh, 0lh, 0lh, 0lh, 0lh, 0dh, 0dh; 0dh, 0ffh, 0ffh, 0dh, 0ffh, 0dh, 0ffh, 0dh, 0dh, 0lh, 0lh, 0dh, 0dh, 0dh; 0dh, 0ffh, 0ffh, 0dh, 0sh, 0ffh, 0dh, 0ffh, 0dh, 0lh, 0lh, 0dh, 0dh; 0dh, 0ffh, 0ffh, 0dh, 0sh, 0ffh, 0dh, 0ffh, 0dh, 0lh, 0lh, 0dh; 0dh, 0ffh, 0ffh, 0dh, 0sh, 0ffh, 0dh, 0ffh, 0dh, 0lh, 0lh, 0lh, 0dh; 0dh, 0ffh, 0ffh, 0dh, 0sh, 0ffh, 0dh, 0ffh, 0dh, 0lh, 0lh, 0dh; 0dh, 0dh; 0dh, 0ffh, 0ffh, 0dh, 0sh, 0dh, 0ffh, 0dh, 0ffh, 0dh, 0lh, 0lh, 0dh; 0dh; 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0ffh, 0dh, 0ffh, 0dh, 0dh, 0dh, 0dh, 0dh; 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0ffh, 0dh, 0dh, 0dh, 0dh, 0dh, 0dh; 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0ffh, 0dh, 0dh, 0dh, 0dh, 0dh, 0dh; 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0dh,</pre>	
defb defb defb defb defb defb defb defb	<pre>02ah, 06h, 02rh, 03ah, 02rh, 03ah, 02rh, 03ah, 06ch, 02ah, 00ah, 06ch, 03h, 05ch; 02ah, 06h, 05ch, 0cch, 03h, 01h, 01h, 06h, 03ch, 0cch, 0cch, 02h, 00h, 0fch, 0cbh, 01h; 0beh, 0cch, 0beh, 02h, 01h, 0edh, 04bh, 082h, 05ch, 0cch, 03h, 02ch, 00h, 02ch, 05ch; 0fch, 0ch, 07eh, 0cch, 0beh, 020h, 01ch, 0elh, 0clh, 0cch, 03h, 05ch, 0elh, 02zh, 05ch; 0fch, 0ch, 01h, 0feh, 0cch, 0beh, 02h, 01ch, 0elh, 02h, 03ch, 05ch, 04h, 02ch, 05ch; 0fch, 0ch, 01h, 0feh, 0cch, 0beh, 02h, 01ch, 0elh, 05ch, 03ch, 05ch, 04h, 02ch, 05ch; 0fch, 0ch, 01h, 0feh, 0cch, 05ch, 06dh, 05ch, 0fch, 03ch, 0cch, 02h, 0cch, 0clh, 0cch; 05ch, 018h, 01rh, 05ch, 02zh, 01ch, 05ch, 0dfh, 0fch, 01fh, 0cch, 04h, 02h, 0cch, 0clh, 0cch; 05h, 02ah, 0cdh, 0ffh, 02ah, 018h, 003h, 0cch, 0fch, 01fh, 0cch, 04h, 02h, 0cch, 0clh, 0cch; 05h, 02ah, 0fch, 0feh, 00ch, 0c8h, 0fch, 00bh, 0cdh, 03h, 025h, 06ch, 01h, 05ch, 0fch; 05h, 02ah, 02dh, 0fch, 0ceh, 0cfh, 06h, 06h, 0ch, 0fch, 01h, 0cch, 01h, 01h, 0feh; 0fch, 02h, 02ah, 0fch, 0feh, 0dh, 0csh, 0fch, 0dh, 0ch, 0fch, 01h, 0dh, 0dfh, 0ffh; 0fch, 02fh, 0feh, 0feh, 03h, 0c8h, 0fch, 0dah, 0fch, 0fh, 0fh, 0fh; 0fch; 0fch, 02fh, 0fch, 0feh, 03h, 0c8h, 0fch, 0dah, 0fch, 0fh, 0fh, 0dfh, 0ffh; 0fch, 0fch, 0fch, 0fch, 0fh, 0fh, 0fch, 0dah, 0fch, 01h, 0cch, 00h, 02h, 01h, 0fch; 0dh, 0fch, 0fch, 0fch, 0fh, 0fh, 0fh, 0fh, 0fh, 0fh, 0fh, 0f</pre>	

deib defb		
defb	01en, 0e1n, 06/n, 022n, 0/an, 03cn, 0c1n, 0c3n, 020n, 024n, 0d1n, 01en, 02cn, 028n, 008n,	, ucan;
-1 - 61-	0eeh,01bh,0c3h,077h,024h,0e7h,0cdh,082h,01ch,0cdh,0eeh,01bh,0efh,0c5h,0a2h,	004h;
ne fr	01fb.031b.030b.030b.000b.006b.002b.038b.0c3b.077b.024b.0c0b.002b.0c1b.002b	031h:
a- =-		0916.
delb	02an, 0ein, 00in, 0ein, 02an, 00in, 0eon, 00sh, 02an, 0eon, 00in, 0san, 0san, 0fen, 0ien,	.0811;
defb	030h,007h,0efh,002h,002h,038h,0c3h,077h,024h,0cdh,07dh,024h,0c5h,0efh,002h,	.0e1h;
defb	001h,005h,0c1h,002h,001h,031h,0e1h,004h,0c2h,002h,001h,031h,0e1h,004h.0e2h.	0e5h;
defh	0e0h.003h.0a2h.004h.031h.01fh.0c5h.002h.020h.0c0h.0c2h.0c2h.0c1h.0c5h	.004h:
Le Ch		00411,
deib	ueun,ue∠n,uu4n,uuin,uein,uuin,ucin,u02h,0e0h,004h,0e2h,0e5h,004h,003h,0c2h,	uzah;
defb	0e1h,02ah,00fh,002h,038h,01ah,0feh,081h,0c1h,0dah,077h,024h,0c5h,0efh,001h,	.038h;
defh	03ah.07dh.05ch.0cdh.028h.02dh.0efh.0c0h.00fh.001h 038h 03ah 07eh 05ch 0cdh	028h;
		0216.
aeip	U2an, Uein, Ucon, UUin, Ueun, Ueon, U38n, Ucin, UUon, U28n, U3cn, U18n, U14n, Uein, Uein,	.031n;
defb	0e3h,004h,0e2h,0e4h,004h,003h,0c1h,002h,0e4h,004h,0e2h,0e3h,004h,00fh,0c2h,	.002h;
defb	038h,0c5h,0efh,0c0h,002h,0e1h,00fh,031h,038h,03ah,07dh,05ch,0cdh,028h,02dh,	Oefh;
defh	003b 0e0b 0e2b 00fb 0c0b 001b 0e0b 038b 03ab 07eb 05cb 0cdb 028b 02db 0efb	0036.
L Ch		0.000011,
aeip	U38n, UCan, UD/n, U24n, UCIn, UIUn, UC6n, UeIn, UU2n, UU2n, UUIn, U38n, U3an, U/an, U5cn,	ucan;
defb	028h,02dh,0efh,003h,001h,038h,03ah,07eh,05ch,0cdh,028h,02dh,0efh,003h,038h,	.0cdh;
defb	0b7h,024h,0c3h,04dh,00dh,0efh,031h,028h,034h,032h,000h,001h,005h,0e5h,001h,	005h;
defb	02ab 038b 0cdb 0d5b 02db 038b 006b 0e6b 0fcb 0c6b 004b 030b 002b 03eb 0fcb	0f5b.
L Ch		0.11
aeip	Ucan, U28n, U2an, Uein, Uesn, UUin, UUsn, U3in, Uiin, Ucan, UUzn, U3in, Uazn, U04n, Uiin,	,ucin;
defb	001h,0c0h,002h,031h,004h,031h,00fh,0a1h,003h,01bh,0c3h,002h,038h,0c1h,0c9h,	.0cdh;
defb	007h,023h,079h,0b8h,030h,006h,069h,0d5h,0afh,05fh,018h,007h,0b1h,0c8h,068h,	041h;
dofb	0d5h 016h 000h 060h 079h 01fh 085h 039h 003h 0bch 039h 007h 084h 04fh 0d9h	0clb;
derp	00311,01011,00011,07811,01111,08311,03811,00311,00211,03811,00711,03411,04111,00311	, UCIII;
defb	0c5h,018h,004h,04fh,0d5h,0d9h,0c1h,02ah,07dh,05ch,078h,084h,047h,079h,03ch,	.085h;
defb	038h,00dh,028h,00dh,03dh,04fh,0cdh,0e5h,022h,0d9h,079h,010h,0d9h,0d1h,0c9h,	028h;
defh	0f3b 0cfb 00ab 0dfb 006b 000b 0c5b 04fb 021b 096b 025b 0cdb 0dcb 016b 079b	0d2h.
		01-1-
aerb	004n, 020n, 000n, 04en, 009n, 0e9n, 0can, 0/4n, 000n, 019n, 01en, 00an, 0can, 08an,	OTCH!
defb	Uten, U22h, 020h, 0f3h, 0cdh, 074h, 000h, 0feh, 022h, 0c9h, 0e7h, 0feh, 028h, 020h, 006h,	Ucdh;
defb	079h,01ch,0dfh,0feh,029h,0c2h,08ah,01ch,0fdh,0cbh,001h,07eh,0c9h,0cdh,007h,	.023h;
defh	02ah.036h.05ch.011h.000h.001h.019h.079h.00fh.00fh 00fh 0e6h 0e0h 0e8h 05fh	.079h:
		0206
aeib	ueon, uton, ueen, u4un, u5/n, u0un, ucon, uaon, ueon, Utan, Uaen, U28n, 004h, 03ch,	.∪∠∪∏;
defb	Ulah,U3dh,O4fh,O06h,O07h,O14h,O23h,O1ah,Oaeh,Oa9h,O20h,O0fh,O10h,Of7h,Oc1h,	.Uclh;
defb	0c1h,03eh,080h,090h,001h,001h,000h,0f7h,012h,018h,00ah,0e1h,011h,008h.000h.	.019h;
defh	0d1h.0c1h.010h.0d3h.048h.0c3h.0b2h.02ah 0cdh 007h 023h 079h 00fh 00fh 00fh	04fh:
		01ah.
aeip	Ueon, Ueun, Uaan, Uoin, U/9n, Ueon, UU3n, Ueen, U5an, Uo/n, U/en, UC3n, U2an, U2an, U2an,	, Ulch;
defb	U28h,U4fh,O2eh,Of2h,O2bh,O12h,Oa8h,O56h,Oa5h,O57h,Oa7h,O84h,Oa6h,O8fh,Oc4h,	.Ue6h;
defb	0aah,0bfh,0abh,0c7h,0a9h,0ceh,000h,0e7h,0c3h,0ffh,024h,0dfh,023h.0e5h.001h.	.000h;
dofb	000h 0cdh 00fh 025h 020h 01bh 0cdh 00fh 025h 028h 0fbh 0cdh 025h 028h	011h•
TETD		0206
deib	01/n, 0ein, 0don, 0/en, 023n, 012n, 013n, 0feh, 022h, 020h, 0f8h, 0/en, 023h, 0feh, 022h,	.∪∠8n;
defb	0f2h,00bh,0d1h,021h,03bh,05ch,0cbh,0b6h,0cbh,07eh,0c4h,0b2h,02ah,0c3h,012h,	.027h;
defb	0e7h,0cdh,0fbh,024h,0feh,029h,0c2h,08ah,01ch,0e7h,0c3h,012h,027h.0c3h.0bdh.	027h;
defb	0cdh.030h.025h.028h.028h.0edh.04bh.076h.05ch.0cdh.02bh.02dh.0efh.0eth.0eth.0eth	034h:
	027b 015b 004b 024b 024b 024b 020b 020b 020b 020	Oadh.
aeib	03/n, 010n, 004n, 034n, 080n, 041n, 000n, 080n, 032h, 002h, 002h, 03h, 03h, 03h, 03h, 03h,	ocan;
defb	Ua2h,U2dh,Oedh,O43h,O76h,O5ch,O7eh,Oa7h,O28h,O03h,Od6h,O10h,O77h,O18h,O09h,	.Ucdh;
defb	030h,025h,028h,004h,0efh,0a3h,038h,034h,0e7h,0c3h.0c3h.026h.001h.05ah.010h.	0e7h;
defh	0feb.023b.0cab.00db.027b.021b.03bb.05cb.0cbb.0bbb.0cbb.07eb.028b.01fb.0cdb	.08eh:
Joth	0.02b 0.02b 0.02b 0.02b 0.13b 0.2db 0.12b 0.02b 0.2db 0.2db 0.2db 0.2db 0.2db	0f5b.
aeip	002n, 00en, 000n, 020n, 013n, 0can, 01en, 003n, 030n, 00en, 015n, 05n, 0cah, 033h, 003h,	, ULDII;
defb	001h,001h,000h,0f7h,0f1h,012h,00eh,001h,006h,000h,0cdh,0b2h,02ah,0c3h,012h,	027h•
		02,111,
defb	0cdh,022h,025h,0c4h,035h,025h,0e7h,0c3h,0dbh,025h,0cdh,022h,025h,0c4h,080h.	025h;
defb defb	0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0ch, 022h, 025h, 0c4h, 02ch, 0	025h; 030h;
defb defb	0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 056h, 041h, 030h, 03ch, 0cdh, 020h,	025h; 030h;
defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h,</pre>	025h; 030h; 006h;
defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 0a7h,</pre>	.025h; .030h; .006h; .0edh;
defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0c5h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 055h, 05ch, 00eh, 005h, 037h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02dh, 077h, 000h, 018h, 00eh, 0dfh. 023h.</pre>	025h; 030h; 006h; 0edh; 07eh;
defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 002ah, 065h, 05ch, 00eh, 005h, 0a7h, 042h, 025h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 08h, 032h, 05ch, 05ch, 06dh, 0cfh, 03h</pre>	025h; 030h; 006h; 0edh; 07eh;
defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 0a7h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02ah, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 02ah, 03ch, 02ch, 02ch, 0fah, 0cch, 0fah, 0, 0fah</pre>	025h; 030h; 006h; 0edh; 07eh; 018h;
defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0c5h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 037h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 01h, 0feh, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0coh,</pre>	025h; 030h; 006h; 0edh; 07eh; 018h; 038h;
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 002ah, 065h, 05ch, 00eh, 005h, 0a7h, 042h, 025h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 001h, 0f6h, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 033h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h,</pre>	025h; 030h; 006h; 0edh; 07eh; 018h; 038h; 018h;
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 0dfh, 023h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 00fh, 0f6h, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03h, 05ch, 0feh, 0c1h, 004h, 023h, 0cdh, 0b4h, 033h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 001h, 0f0h, 004h, 07eh, 014h.</pre>	025h; 030h; 006h; 0edh; 07eh; 018h; 038h; 018h; 028h;
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0c5h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 037h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 01h, 0feh, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 028h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 027h, 001h, 010h, 0feh, 0aeh, 020h, 010h, 0afh, 0ah, 08ah, 01ch, 001h, 0feh, 014h, 014h, 004h, 010h, 010h, 010h, 004h, 014h, 014h, 004h, 014h, 014h, 004h, 010h, 010h, 010h, 006h, 010h, 04h, 014h, 014h, 004h, 07h, 000h, 01h, 000h, 004h, 014h, 014h, 014h, 004h, 014h, 014h, 014h, 006h, 010h, 010h, 010h, 004h, 014h, 014h, 014h, 004h, 014h, 014h,</pre>	025h; 030h; 006h; 006h; 07eh; 018h; 018h; 028h; 028h; 0feh;
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 03ch, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 0a7h, 042h, 025h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 001h, 0f6h, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 033h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 001h, 0f0h, 004h, 0feh, 014h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 06ch, 04fh, 03ah, 03ch, 03ch, 05ch, 01ch, 001h, 014h, 002h, 028h, 020h, 06h, 01ch, 06ch, 04fh, 06ch, 06th, 030h, 002h, 0cbh, 001h</pre>	025h; 030h; 006h; 006h; 007eh; 018h; 018h; 018h; 028h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 0
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0c5h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 037h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02h, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 00fh, 0f6h, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03h, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 033h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 001h, 0f0h, 004h, 0feh, 014h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 03dh, 002h, 0cbh, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 0e7h, 0c3h, 0ffh, 02dh, 0dfh, 03h, 028h, 020h, 00ch,</pre>	025h; 030h; 006h; 0edh; 07eh; 018h; 038h; 018h; 028h; 0feh; 0feh;
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0c5h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 037h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 01h, 0feh, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 033h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 001h, 004h, 0feh, 014h, 014h, 0d2h, 08ah, 01ch, 006h, 01h, 0cch, 04fh, 0feh, 0dfh, 030h, 002h, 0cbh, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 0feh, 028h, 020h, 00ch, 0cbh, 001h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 000h, 04fh, 021h, 010h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 000h, 04fh, 021h, 01h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 000h, 04fh, 021h, 0cbh, 001h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 000h, 04fh, 021h,</pre>	025h; 030h; 006h; 006h; 007eh; 018h; 018h; 018h; 028h; 0feh; 00fdh; 095h;
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 03ch, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 037h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 001h, 0f6h, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 033h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 001h, 0f0h, 004h, 0feh, 014h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 0dfh, 030h, 002h, 0cbh, 001h, 0eeh, 038h, 002h, 0cbh, 0b5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 038h, 00ch, 0dch, 0dch, 027h, 0cdh, 0cdh, 0dch, 016h, 030h, 006h, 04eh, 021h, 0edh, 026h, 009h, 046h, 0d1h, 07ah, 0b8h,</pre>	025h; 030h; 006h; 00eh; 07eh; 018h; 018h; 018h; 028h; 018h; 00fh; 095h; 038h;
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defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0c5h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 037h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 01h, 0f6h, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 033h, 01h, 0dbh, 009h, 0feh, 02dh, 022h, 061h, 01h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 001h, 01h, 0feh, 01h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 0dfh, 030h, 002h, 0cbh, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 0feh, 028h, 020h, 00ch, 0cbh, 001h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 006h, 000h, 04fh, 021h, 027h, 0cdh, 018h, 000h, 065h, 04eh, 021h, 03bh, 05ch, 07bh, 06fh, 0dch, 018h, 08h, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03bh, 05ch, 07bh, 0efh, 0efh, 020h, 002h, 0cbh, 0b8h, 020h, 002h, 01eh, 099h, 0d5h, 021h, 03bh, 05ch, 07bh, 0feh, 0efh, 027h, 0efh, 0d7h, 0efh, 0efh, 06ch, 0d6h, 0efh, 020h, 002h, 06ch, 0b6h, 0efh, 020h, 002h, 06ch, 06bh, 0efh, 020h, 07bh, 06eh, 07bh, 0efh, 06ch, 07bh, 0efh, 07bh, 0efh, 06ch, 07bh, 0efh, 07bh, 0efh, 07bh, 0efh, 07bh, 0efh, 06ch, 07bh, 0efh, 06ch, 07bh, 0efh, 07bh, 0feh, 07bh, 0efh, 07bh, 0efh, 07bh, 0feh, 07bh, 0efh, 07bh, 0feh, 07bh, 0</pre>	025h; 030h; 006h; 006h; 007eh; 018h; 018h; 018h; 028h; 0feh; 0fdh; 095h; 038h; 076h; 038h;
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defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 027h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 016h, 023h, 0cdh, 02bh, 0ebh, 02ah, 065h, 05ch, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 02ch, 05dh, 05ch, 0fdh, 0cbh, 00fh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 001h, 0f6h, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0dah, 03ah, 01sh, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 001h, 0f0h, 004h, 0feh, 014h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 0dfh, 030h, 002h, 0cbh, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 0feh, 028h, 020h, 00ch, 0cbh, 01h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 010h, 006h, 00dh, 07h, 08h, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feh, 02dh, 026h, 0cbh, 020h, 002h, 01eh, 099h, 0d5h, 0cdh, 030h, 025h, 028h, 009h, 07bh, 0e6h, 03fh, 047h, 0efh, 038h, 018h, 009h, 07bh, 02dh, 02ch, 02bh, 02bh, 02h, 07h, 04h, 04h, 021h, 03bh, 05h, 01eh, 07bh, 020h, 002h, 0cbh, 06h, 02h, 02h, 03h, 07h, 04h, 0chh, 076h, 020h, 015h, 0e6h, 03fh, 0cch, 00sh, 04fh, 01h, 02h, 05h, 07hh, 0feh, 02h, 0ffh, 02hh, 0cbh, 076h, 020h, 015h, 0e6h, 03fh, 0cch, 00sh, 04fh, 0feh, 01h, 02h, 0cbh, 0ffh, 02h, 0cbh, 0cfh, 0cbh, 0ffh, 02h, 0cfh, 0chh, 07bh, 02h, 0cbh, 0cbh, 0cfh, 0cfh, 0chh, 0ffh, 02ah, 0cfh, 0chh, 0chh, 0ffh, 02ah, 0cfh, 0chh, 0chh, 0ffh, 02ah, 0ch, 0chh, 0chh, 0chh, 0chh, 0ffh, 02ah, 0cfh, 0chh, 0chh, 0chh, 0chh, 0chh, 0ffh, 0chh, 0ffh, 0chh, 0ch, 0c</pre>	025h; 030h; 006h; 006h; 007eh; 018h; 038h; 018h; 028h; 0fdh; 095h; 038h; 076h; 038h; 005ch; 001h; 008h; 028h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h; 007h;
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0c5h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 037h, 04h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02h, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 0ffh, 0c1h, 04h, 0c3h, 0cdh, 0b4h, 03ah, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 03ah, 01ah, 0dah, 00ah, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 001h, 0f0h, 004h, 0feh, 014h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 0dfh, 030h, 002h, 0cbh, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 03h, 002h, 0cbh, 0b1h, 0cbh, 001h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0fh, 006h, 000h, 04fh, 021h, 027h, 0cdh, 0dch, 016h, 030h, 025h, 022h, 026h, 009h, 046h, 0d1h, 07ah, 08bh, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feh, 0d1h, 07ah, 08bh, 020h, 002h, 01eh, 099h, 0d5h, 0cdh, 030h, 025h, 028h, 009h, 07bh, 0e6h, 03fh, 047h, 0efh, 038h, 018h, 009h, 07bh, 02ch, 0ach, 03h, 025h, 028h, 009h, 07bh, 0e6h, 03fh, 047h, 0efh, 038h, 018h, 009h, 07bh, 020h, 02ch, 0bch, 06th, 02h, 03ah, 01ch, 0d1h, 021h, 03bh, 0cbh, 0f6h, 0cbh, 07bh, 020h, 02ch, 0bch, 06th, 02h, 03ah, 01ch, 0d1h, 021h, 03bh, 0cbh, 0f6h, 0cbh, 07bh, 020h, 02ch, 0bch, 06th, 01h, 020h, 0d4h, 0cbh, 0f1h, 018h, 07h, 020h, 015h, 0e6h, 03fh, 0ceh, 03ch, 0ceh, 03ch, 0ceh, 03ch, 0cdh, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0f1h, 018h, 07h, 020h, 015h, 0e6h, 03fh, 0ceh, 03ch, 0ceh, 03ch, 0ceh, 03ch, 0cch, 0cch,</pre>	025h; 030h; 025h; 006h; 00edh; 018h; 018h; 028h; 01feh; 01feh; 01feh; 00feh; 003bh; 003bh; 003bh; 001h; 001h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 0
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defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 0dfh, 023h, 04ch, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 00fh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 00fh, 014h, 04h, 0c3h, 0cdh, 0b4h, 03ah, 01eh, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 03ah, 01ah, 0dah, 08ah, 01ch, 001h, 0feh, 02ah, 028h, 027h, 001h, 014h, 0d2h, 08ah, 01ch, 006h, 01oh, 0c6h, 0dch, 04fh, 0feh, 01h, 0feh, 02ah, 02h, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 030h, 002h, 0cbh, 0b1h, 0ech, 038h, 002h, 0cbh, 0b9h, 0c5h, 02ah, 0e7h, 018h, 0foh, 006h, 000h, 0dfh, 021h, 0cbh, 01h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0foh, 006h, 000h, 0dfh, 02h, 02h, 00ch, 01eh, 030h, 00ch, 05h, 021h, 03bh, 05ch, 07bh, 0feh, 0edh, 021h, 07ah, 0b8h, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feh, 0edh, 021h, 03fh, 0cfh, 020h, 01eh, 07bh, 0fdh, 0aeh, 01h, 0e6h, 040h, 0c2h, 08ah, 01ch, 0d1h, 07ah, 0b8h, 0cbh, 0f6h, 0cbh, 07bh, 0fdh, 0aeh, 001h, 0e6h, 04h, 0c2h, 08ah, 01ch, 0d1h, 02th, 0d5h, 0cfh, 020h, 015h, 0e6h, 03fh, 0ceh, 0b8h, 04fh, 01h, 02h, 0d5h, 079h, 0fdh, 0cbh, 0f6h, 0cbh, 07bh, 02h, 002h, 0cbh, 0b6h, 0c1h, 018h, 0c1h, 0d5h, 079h, 0fdh, 0cbh, 0f6h, 0cbh, 07bh, 02h, 002h, 0cbh, 0b6h, 0c1h, 018h, 0c1h, 0d5h, 079h, 0fdh, 0cbh, 0f6h, 0cbh, 07bh, 02h, 0cbh, 0b6h, 0f9h, 0csh, 0e7h, 0c3h, 0ffh, 024h, 0cbh, 0ffh, 0cbh, 0ffh, 0csh, 03fh, 0cch, 0sh, 0ffh, 0csh, 0ffh, 0csh, 0csh</pre>	025h; 030h; 025h; 030h; 00ch; 018h; 018h; 018h; 028h; 0fch; 04h; 05h; 038h; 07ch; 038h; 07ch; 038h; 001h; 002h; 002h; 002h; 002h; 002h; 038h; 018h; 038h; 018h; 038h; 005h; 008h; 005h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0c5h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 037h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 0feh, 0ch, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 001h, 0fdh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 001h, 0f0h, 004h, 0feh, 014h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 0dfh, 030h, 002h, 0cbh, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 0feh, 028h, 020h, 00ch, 0cbh, 001h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 006h, 0d0h, 0dfh, 021h, 027h, 0cdh, 016h, 030h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feh, 0d1h, 07ah, 088h, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feh, 0d1h, 07ah, 088h, 03ah, 018h, 009h, 07bh, 0fdh, 0aeh, 001h, 0e6h, 03h, 07h, 0fdh, 0cbh, 0cbh, 0f6h, 0cbh, 07hh, 02h, 002h, 0bh, 06h, 01h, 01ah, 01h, 05h, 07h, 0fdh, 0cbh, 076h, 02ch, 015h, 0e6h, 03fh, 0cch, 03h, 04fh, 0feh, 010h, 02h, 00fh, 0cbh, 0f1h, 018h, 07h, 02ah, 0c4h, 02fh, 0c5h, 0c5h, 0c7h, 0c3h, 0feh, 02ah, 02ah, 0c4h, 02h, 0cfh, 0cbh, 0feh, 01h, 01h, 02h, 0cfh, 0csh, 0csh,</pre>	025h; 030h; 025h; 006h; 00edh; 07eh; 018h; 028h; 0feh; 0feh; 0feh; 0feh; 038h; 076h; 038h; 076h; 038h; 005ch; 001h; 008h; 022h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h;
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defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0c5h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 00fh, 023h, 0deh, 02bh, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 0cfh, 0cfh, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 033h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 001h, 0foh, 004h, 0feh, 028h, 020h, 0d6h, 010h, 0c6h, 0dch, 04fh, 03eh, 024h, 028h, 020h, 00ch, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 0dfh, 030h, 002h, 0cbh, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 0feh, 028h, 020h, 00ch, 0cbh, 001h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0fh, 06h, 000h, 04fh, 021h, 027h, 0cdh, 0dch, 016h, 030h, 025h, 021h, 03bh, 05ch, 07bh, 0feh, 0dh, 0d1h, 07ah, 0b8h, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feh, 0dh, 0d1h, 07ah, 0b8h, 020h, 002h, 01eh, 099h, 0d5h, 0cdh, 030h, 025h, 028h, 009h, 07bh, 0e6h, 03fh, 047h, 0efh, 038h, 018h, 009h, 07bh, 020h, 0cbh, 0b6h, 0c1h, 018h, 0d1h, 0d1h, 021h, 03bh, 0cbh, 0f6h, 0cbh, 07bh, 020h, 0cbh, 0b6h, 0c1h, 018h, 0d5h, 07h, 0cdh, 0d1h, 0cbh, 0ffh, 0cbh, 07bh, 020h, 0cbh, 0b6h, 0c1h, 018h, 0d1h, 0d1h, 0c1h, 0d5h, 0c7h, 0c6h, 03fh, 0cch, 03h, 0cch, 0d1h, 0cbh, 0ffh, 0cbh, 0cfh, 0cbh, 0ffh, 0cbh, 0ffh, 0cbh, 0cfh, 0cbh, 0cfh, 0cbh, 0ffh, 0cbh, 0cfh, 0</pre>	025h; 030h; 025h; 030h; 006h; 00edh; 018h; 038h; 028h; 0feh; 0feh; 0feh; 038h; 076h; 038h; 076h; 038h; 001h; 002h; 001h; 002h; 002h; 002h; 005h; 002h; 005h; 002h; 005h; 002h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 005h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 0
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0c5h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 00fh, 023h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 0feh, 0cdh, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 033h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 0dah, 01ch, 001h, 0foh, 004h, 0feh, 014h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 0dfh, 030h, 00ch, 0cch, 0b1h, 0cbh, 001h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 006h, 000h, 04ch, 021h, 0ch, 001h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 006h, 0d1h, 07ah, 0b8h, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feeh, 0dfh, 0d1h, 07ah, 0b8h, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feeh, 0dfh, 0d1h, 07ah, 0b8h, 03ah, 018h, 009h, 07bh, 0fdh, 0aeh, 001h, 0e6h, 04h, 02ch, 0d0h, 0dfh, 0dfh, 0chh, 0f6h, 0cbh, 07bh, 020h, 002h, 0cbh, 0b6h, 01h, 018h, 01h, 0dfh, 079h, 0fdh, 0cbh, 0f6h, 0cbh, 07bh, 020h, 002h, 0cbh, 0feh, 01h, 018h, 01h, 0dfh, 079h, 0fdh, 0cbh, 0f6h, 0cbh, 0f1h, 02ah, 002h, 0cbh, 0feh, 01h, 01ah, 02h, 0ffh, 0cdh, 0cbh, 0ffh, 0cbh, 0ffh, 0cbh, 0ffh, 0csh, 0</pre>	025h; 030h; 025h; 030h; 006h; 07eh; 018h; 038h; 018h; 028h; 0feh; 0feh; 095h; 038h; 076h; 038h; 05ch; 001h; 008h; 022h; 008h; 028h; 005h; 008h; 028h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 00
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 037h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0feh, 0cbh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0feh, 0cbh, 00fh, 04h, 023h, 0cdh, 0b4h, 033h, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 03ah, 01ch, 0dch, 0dfh, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 011h, 0foh, 00dh, 0feh, 014h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 0dfh, 030h, 002h, 0cbh, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 030h, 002h, 0cbh, 00ch, 0cbh, 01h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0foh, 006h, 000h, 04fh, 021h, 027h, 0cdh, 01ch, 030h, 00ch, 04eh, 021h, 0adh, 02ch, 03h, 04ch, 0d1h, 07ah, 0b8h, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feh, 0edh, 020h, 00ch, 0cbh, 020h, 01ch, 07bh, 020h, 0cbh, 0b3h, 02ch, 02bh, 00fh, 0dfh, 0d1h, 07ah, 0b8h, 0ch, 0f6h, 0cbh, 07bh, 020h, 00ch, 0dh, 0dh, 0clh, 0dfh, 0dh, 0chh, 0chh, 0fbh, 0chh, 0fbh, 02bh, 0bch, 0dh, 0ch, 0dch, 0chh, 0chh, 0fbh, 0chh, 0fbh, 02bh, 0bch, 0bbh, 0ch, 0bh, 0bch, 0chh, 0bh, 0chh, 0chh, 0chh, 0bh, 0fbh, 0chh, 0bh, 0fbh, 0chh, 0bh, 0chh, 0bh, 0chh, 0bh, 0chh, 0bh, 0fbh, 0chh, 0bh, 0chh, 0bh, 0chh, 0bh, 0chh, 0ch,</pre>	025h; 030h; 025h; 030h; 006h; 00edh; 018h; 018h; 028h; 018h; 028h; 04h; 05h; 038h; 076h; 038h; 076h; 038h; 001h; 008h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0c5h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 037h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02h, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 0cfh, 0cfh, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 033h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 001h, 0f0h, 004h, 0feh, 014h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 0dfh, 030h, 002h, 0cbh, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 030h, 002h, 0cbh, 0b1h, 0ech, 001h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 006h, 000h, 04fh, 021h, 027h, 0cdh, 0dch, 016h, 030h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feh, 0d1h, 07ah, 08bh, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feh, 0d1h, 07ah, 08bh, 020h, 002h, 01eh, 099h, 0d5h, 0cdh, 030h, 025h, 028h, 009h, 07bh, 0e6h, 03fh, 047h, 0efh, 038h, 018h, 009h, 07bh, 020h, 02ch, 0b6h, 04h, 02ch, 08ah, 01ch, 0d1h, 021h, 03bh, 0cbh, 0f6h, 0cbh, 07bh, 020h, 02ch, 0b6h, 04h, 04ch, 02ch, 03ch, 0cdh, 0cbh, 0ffh, 0cbh, 076h, 020h, 015h, 0e6h, 03fh, 0ceh, 03dh, 0ceh, 03eh, 0cch, 03ch, 0cdh, 0cfh, 0cbh, 0c3h, 02ah, 0cdh, 02fh, 0c5h, 0ch, 06h, 03dh, 0ceh, 03ah, 0cch, 0dh, 0cch, 0cfh, 0cbh, 0ffh, 0cch, 0cfh, 0csh, 0cfh, 0csh, 0cfh, 0csh, 0cfh, 0csh, 0cfh, 0csh, 0cfh, 0csh, 0cfh, 0cch, 0dh, 0dch, 0d</pre>	025h; 030h; 025h; 030h; 006h; 00edh; 018h; 038h; 028h; 0feh; 0feh; 0feh; 038h; 076h; 038h; 076h; 038h; 05ch; 001h; 008h; 002dh; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h;
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 027h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 037h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 001h, 0f6h, 014h, 0cdh, 0b2h, 028h, 0cdh, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 033h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 0dah, 01ch, 001h, 0f0h, 004h, 014h, 014h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 03dh, 022h, 0cbh, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 0feh, 028h, 020h, 00ch, 0cbh, 01h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 010h, 00feh, 020h, 00ch, 00ch, 00ch, 00ch, 00ch, 00ch, 0cbh, 0b8h, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feh, 0deh, 020h, 006h, 0cbh, 020h, 002h, 01eh, 099h, 0d5h, 0cdh, 030h, 025h, 028h, 009h, 07bh, 0e6h, 03fh, 047h, 0efh, 038h, 018h, 009h, 07bh, 02dh, 00ch, 06bh, 0c1h, 018h, 01ch, 0d1h, 07h, 0fdh, 0cbh, 076h, 020h, 015h, 0e6h, 03fh, 0c6h, 03h, 0cfh, 0c1h, 01bh, 0c5h, 0ffh, 0c4h, 0cfh, 0cbh, 076h, 020h, 015h, 0e6h, 03fh, 0c6h, 03h, 0cch, 03h, 0cch, 0dch, 0cfh, 0cfh, 038h, 0d7h, 0feh, 017h, 028h, 002h, 0cbh, 0f9h, 0c5h, 0ceh, 03h, 0ffh, 024h, 0dfh, 0fh, 0chh, 076h, 020h, 0ffh, 0cfh, 0c5h, 0c6h, 03dh, 0cch, 03h, 0ffh, 024h, 0dfh, 0fh, 0chh, 0f6h, 0dfh, 0ffh, 0cfh, 0cfh, 0c8h, 000h, 0cfh, 03h, 0ffh, 0c4h, 0cfh, 0cfh</pre>	025h; 030h; 025h; 030h; 006h; 006h; 018h; 038h; 018h; 028h; 018h; 028h; 016h; 095h; 038h; 076h; 038h; 076h; 038h; 02ch; 002h; 028h; 002h; 028h; 028h; 028h; 028h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 022h; 02
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0cdh, 09th, 00ch, 00fh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0ddh, 0b4h, 033h, 022h, 05dh, 05ch, 0feh, 0cbh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0ddh, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 033h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 01h, 0feh, 02ah, 028h, 020h, 0dch, 01h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 0dfh, 030h, 002h, 0cbh, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 030h, 002h, 0cbh, 001h, 07h, 0cdh, 0dch, 016h, 030h, 006h, 02h, 02ah, 0e7h, 018h, 0f0h, 006h, 000h, 0dfh, 021h, 02h, 00ch, 01ch, 030h, 00ch, 04eh, 021h, 0adh, 02ch, 03h, 0dfh, 0dh, 0dh, 0cfh, 02h, 020h, 002h, 01eh, 039h, 0d5h, 0cdh, 03h, 025h, 028h, 009h, 07hh, 0e6h, 03fh, 047h, 0efh, 038h, 018h, 009h, 0fh, 0ach, 01h, 0ach, 02bh, 0fh, 0fh, 0dh, 0dh, 0ch, 0dh, 0ch, 020h, 002h, 01eh, 099h, 0d5h, 0cdh, 03h, 025h, 028h, 009h, 07hh, 0ech, 03fh, 047h, 0efh, 038h, 018h, 009h, 0fh, 0dh, 0ach, 01h, 0efh, 04h, 0ch, 0dh, 0dh, 0ch, 0fh, 0ch, 0fh, 0ch, 0fh, 0fh, 0fh, 0ach, 00h, 0fh, 0fh, 0fh, 0ch, 0fh, 0ch, 0fh, 0ch, 0fh, 0fh, 0ch, 0ch, 0fh, 0ch, 0ch, 0ch, 0fh, 0ch, 0ch, 0fh, 0ch, 0ch, 0fh, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0c</pre>	025h; 030h; 025h; 030h; 006h; 00edh; 018h; 018h; 028h; 018h; 028h; 018h; 028h; 038h; 038h; 038h; 038h; 001h; 003h; 022h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 002h; 0
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defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0cdh, 065h, 05ch, 00eh, 005h, 0a7h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02bh, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fdh, 0cbh, 001h, 0f6h, 014h, 0cdh, 02h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 004h, 023h, 0cdh, 0b4h, 033h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 08ah, 01ch, 01h, 0foh, 04h, 0feh, 01h, 01h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 04fh, 0feh, 0dfh, 03h, 002h, 0cbh, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 02h, 0c3h, 0ffh, 024h, 0dfh, 0feh, 028h, 020h, 00ch, 0cbh, 001h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 006h, 000h, 04fh, 021h, 027h, 0cdh, 0dch, 016h, 030h, 01h, 06ch, 02ah, 02ch, 03h, 01h, 01h, 07ah, 08Bh, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feh, 0edh, 03th, 047h, 0efh, 03bh, 018h, 009h, 07bh, 0fdh, 0aeh, 001h, 026h, 028h, 001h, 07hh, 026h, 03fh, 047h, 0efh, 03bh, 018h, 009h, 07bh, 020h, 002h, 0cbh, 06ch, 03h, 0ch, 0dsh, 01ch, 01h, 03bh, 0ch, 0f6h, 0cbh, 07bh, 020h, 002h, 0cbh, 0feh, 01h, 02h, 0dsh, 01ch, 0dfh, 0cbh, 0fh, 0cbh, 07h, 020h, 015h, 0e6h, 03fh, 0c6h, 03h, 0c5h, 0c7h, 0c3h, 0dfh, 02h, 0dfh, 0cfh, 0c6h, 03h, 0c6h, 03h, 0c5h, 0c7h, 0c6h, 03h, 0c5h, 0c7h, 0c6h, 03h, 0c5h, 0c7h, 0c6h, 0dsh, 00sh, 00sh, 0dsh, 0dch, 0drh, 0c7h, 0c9h, 0c3h, 0c3h, 0c5h, 0c7h, 0c6h, 0c6h, 03h, 0c5h, 0c7h, 0c3h, 0c3h, 0c4h, 0dfh, 0c7h, 0c9h, 0c3h, 0c3h, 0c5h, 0c7h, 0c6h, 0c6h, 0d3h, 0ceh, 0dsh, 0dsh, 0dch, 0c7h, 0c9h, 0c3h, 0c3h, 0c5h, 0c7h, 0c6h, 0c6h, 0d3h, 0ceh, 0dsh, 0dsh, 0dch, 0c7h, 0c7h, 0c6h, 0dsh, 0dch, 0c4h, 0dsh, 0dch, 0c4h, 0dsh, 0dch, 0dsh, 0dch, 0dsh, 0dch, 0ds</pre>	025h; 030h; 025h; 030h; 006h; 00edh; 018h; 018h; 028h; 018h; 028h; 016h; 038h; 076h; 038h; 076h; 038h; 005h; 008h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 0
defb defb defb defb defb defb defb defb	<pre>0cdh,022h,025h,0c4h,035h,025h,0e7h,0c3h,0dbh,025h,0cdh,022h,025h,0c4h,080h, 0e7h,018h,048h,0cdh,022h,025h,0c4h,0ebh,022h,0e7h,018h,03fh,0cdh,088h,02ch, 056h,0feh,041h,030h,03ch,0cdh,030h,025h,020h,023h,0cdh,09bh,02ch,0dfh,001h, 000h,0cdh,055h,016h,023h,036h,00eh,023h,0edh,023h,065h,05ch,00eh,005h,037h, 042h,022h,065h,05ch,0edh,0b0h,0ebh,02bh,0cdh,07h,000h,018h,00eh,00fh,023h, 0feh,00eh,020h,0fah,023h,0cdh,0b4h,033h,022h,05dh,05ch,0fdh,0cbh,001h,0feh, 014h,0c3h,05ch,0edh,0adh,02eh,01ch,0cch,096h,029h,03ah,03bh,05ch,0feh,0c0h, 014h,0c3h,0cdh,0b4h,033h,018h,033h,001h,0dbh,009h,0feh,02dh,028h,027h,001h, 010h,0feh,0aeh,028h,020h,0d6h,0afh,0dah,08ah,01ch,001h,0f0h,004h,0feh,014h, 014h,023h,0cdh,0b4h,033h,018h,03ah,01h,0dah,08ah,01ch,001h,0f0h,004h,0feh,014h, 014h,023h,0cdh,0b9h,0c5h,0e7h,0c3h,0ffh,024h,0dfh,0feh,028h,027h,00ch, 0cbh,001h,076h,020h,017h,0cdh,052h,02ah,0e7h,018h,0f0h,006h,004h,0feh,024h,02h,00ch, 0bh,001h,076h,020h,017h,0cdh,052h,02ah,0e7h,018h,0f0h,006h,01h,07ah,0b8h, 03ah,0a7h,0cah,018h,000h,0c5h,021h,03bh,05ch,07bh,0feh,0edh,020h,006h,0cbh, 020h,002h,01eh,099h,0d5h,0ch,03h,025h,028h,009h,07bh,0e6h,03fh,047h,0efh, 038h,018h,009h,07bh,0fdh,0aeh,01h,0e6h,04h,0ch,03h,07h,0efh,0d1h,021h,03bh, 076h,020h,015h,0efh,03fh,0cch,03h,0ffh,04h,0ch,03h,01h,021h,03bh, 076h,020h,015h,0efh,03fh,0cch,03h,0f9h,0c5h,0e7h,0c3h,0ffh,024h,02bh,0cfh, 076h,020h,015h,0efh,03fh,0cch,03h,0ch,0ch,03h,0ch,0dh,0ch,0dh,0ch,0ch, 076h,020h,015h,005h,005h,0ch,06h,03h,0ch,0c3h,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0dh,0ch,03h,02h,0ch,03h,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0ch,0dh,0dh,0ch,0dh,0dh,0ch,0dh,0dh,0dh,0dh,0dh,0dh,0dh,0dh,0dh,0d</pre>	025h; 030h; 025h; 030h; 006h; 00edh; 018h; 038h; 028h; 01feh; 01feh; 01feh; 038h; 0076h; 038h; 0076h; 038h; 0076h; 038h; 0076h; 003h; 002h; 002h; 002h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 0
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0cdh, 04bh, 05ch, 06eh, 005h, 04h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02ah, 0cdh, 05h, 05ch, 0feh, 00eh, 04fh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0dch, 04h, 03ah, 02ch, 05eh, 0fah, 0cbh, 001h, 0feh, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0c0h, 04h, 023h, 0cdh, 0b4h, 033h, 018h, 03ah, 01h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0d6h, 0afh, 0dah, 01eh, 001h, 0f0h, 04h, 0feh, 014h, 014h, 0d2h, 08ah, 01ch, 006h, 010h, 0c6h, 0dch, 04fh, 0feh, 0dfh, 030h, 002h, 0cbh, 0b1h, 0eeh, 038h, 002h, 0cbh, 0b9h, 0c5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 0feh, 028h, 020h, 0och, 0cbh, 001h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 006h, 000h, 04fh, 021h, 027h, 0cdh, 0dch, 016h, 030h, 0c6h, 021h, 0abh, 05ch, 07bh, 0feh, 0dh, 01h, 07ah, 0b8h, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03bh, 05ch, 07bh, 0feh, 0dh, 03h, 02h, 0cbh, 0fh, 02h, 01h, 07bh, 0fdh, 0aeh, 01h, 026h, 01h, 028h, 01h, 02h, 02h, 01h, 02h, 02h, 01h, 02h, 01h, 02h, 01h, 02h, 01h, 02h, 02h, 01h, 02h, 01h, 02h, 01h, 02h, 01h, 02h, 01h, 02h, 01h, 02h, 02h, 01h, 02h, 01h, 02h, 02h, 02h, 02h, 02h, 02h, 02h, 02</pre>	025h; 030h; 025h; 030h; 006h; 00edh; 07eh; 018h; 038h; 018h; 028h; 0feh; 04h; 05h; 038h; 076h; 038h; 05ch; 001h; 008h; 022h; 008h; 028h; 005h; 028h; 005h; 028h; 028h; 028h; 028h; 011h; 028h; 016h; 022h; 028h; 005h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 011h; 028h; 016h; 0090h; 016h; 016h; 017h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 018h; 01
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 03ch, 0cdh, 030h, 025h, 020h, 023h, 0cdh, 09bh, 02ch, 0dfh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0cdh, 07h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 023h, 0cdh, 05ch, 0fdh, 0cbh, 001h, 0f6h, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03h, 05ch, 0feh, 0ch, 004h, 023h, 0cdh, 0b4h, 033h, 018h, 033h, 001h, 0dbh, 009h, 0feh, 02dh, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0dfh, 0afh, 0dah, 01eh, 0fh, 0dfh, 030h, 002h, 0cbh, 01h, 01h, 0feh, 0aeh, 028h, 020h, 0dfh, 0afh, 0dah, 01eh, 0ffh, 030h, 002h, 0cbh, 01h, 01h, 0feh, 0aeh, 020h, 01h, 0c5h, 0e7h, 0c3h, 0ffh, 024h, 0dfh, 0feh, 028h, 020h, 00ch, 02h, 001h, 076h, 020h, 01h, 0c5h, 02h, 02ah, 01h, 0feh, 0dfh, 03h, 002h, 0cbh, 00h, 02rh, 0dch, 01h, 030h, 0c5h, 02rh, 02ah, 02h, 01h, 0feh, 0dfh, 01h, 07h, 0b8h, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03ah, 03h, 05h, 06h, 00h, 00h, 0dh, 0dh, 07h, 02h, 00ch, 01eh, 09h, 0d5h, 0cdh, 03h, 025h, 028h, 009h, 07hb, 0feh, 0dh, 021h, 0ach, 020h, 002h, 01eh, 09h, 0d5h, 0cdh, 03h, 025h, 028h, 009h, 07hb, 0e6h, 03fh, 047h, 0efh, 03ah, 0a7h, 0cah, 01fh, 0aeh, 001h, 0e6h, 040h, 0cah, 01h, 0d1h, 07h, 0feh, 02h, 002h, 01eh, 09h, 0d5h, 0cch, 03h, 02h, 00ch, 01h, 01h, 0ch, 0d1h, 07h, 0feh, 02h, 02h, 01h, 02h, 00ch, 0ch, 03h, 0ch, 03h, 0ch, 03h, 0ch, 0dh, 0ch, 0fh, 0ch, 01h, 0ch, 0feh, 01h, 02h, 0ch, 0ah, 04h, 0feh, 01h, 0ch, 03h, 0ch, 0dh, 0ch, 0fh, 0ch, 01h, 0ch, 0fh, 0ch, 03fh, 0cch, 03h, 0ch, 03h, 0ch, 0dh, 0ch, 0fh, 0ch, 0ch, 01h, 0ch, 0dh, 0ch, 0ch, 0ch, 0dh, 0ch, 0dh, 0dh, 0dh, 0dh, 0ch, 0fh, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0dh, 0ch, 0dh, 0dh, 0ch, 0dh, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0dh, 0ch, 0dh, 0ch, 0dh, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch, 0ch,</pre>	025h; 030h; 025h; 030h; 006h; 00edh; 018h; 018h; 028h; 018h; 028h; 018h; 028h; 038h; 038h; 038h; 038h; 038h; 027h; 038h; 001h; 008h; 028h; 0028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h;
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defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 030h, 023h, 030h, 025h, 020h, 023h, 0cdh, 098h, 02ch, 04fh, 001h, 000h, 0cdh, 055h, 016h, 023h, 036h, 00eh, 023h, 0ebh, 02ah, 065h, 05ch, 00eh, 005h, 0a7h, 042h, 02ch, 065h, 05ch, 0edh, 0b0h, 0ebh, 02h, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 012h, 05ch, 0feh, 0cdh, 0cbh, 001h, 0feh, 02eh, 028h, 02ah, 04h, 033h, 01ch, 0ch, 029h, 03ah, 03bh, 05ch, 0feh, 0coh, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 02yh, 03ah, 03bh, 05ch, 0feh, 0coh, 014h, 02ah, 02ah, 02dh, 0dah, 0afh, 0dah, 08ah, 01ch, 001h, 0feh, 02ah, 0feh, 01dh, 01h, 0feh, 0aeh, 028h, 020h, 0dch, 0afh, 0dah, 08ah, 01ch, 001h, 0feh, 02ah, 0feh, 01dh, 01h, 0feh, 0aeh, 028h, 020h, 0dch, 0afh, 0dah, 08ah, 01ch, 001h, 0feh, 01h, 0feh, 01h, 01h, 0feh, 02eh, 01h, 05ch, 0afh, 0cah, 0afh, 0fah, 0fah, 0fah, 0fah, 02h, 0bh, 0bh, 0cbh, 001h, 076h, 020h, 01Th, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 00fh, 0dch, 00bh, 0dch, 0bh, 02th, 0cah, 01eh, 099h, 0dsh, 0deh, 021h, 0edh, 01h, 0fah, 0dch, 00th, 0dch, 0cbh, 0bh, 02th, 0dch, 01eh, 099h, 0dsh, 0deh, 03h, 025h, 028h, 009h, 07bh, 0edh, 03th, 0drh, 0cbh, 03h, 0a7h, 0cah, 01bh, 0dh, 0aeh, 001h, 0e6h, 040h, 0cch, 03th, 0drh, 0dh, 0cbh, 0dh, 0dh, 0cbh, 0fh, 0dh, 0cbh, 0fh, 0cbh, 0fh, 0cbh, 0fh, 0cbh, 0fh, 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0dh, 0d</pre>	025h; 030h; 025h; 030h; 006h; 00edh; 07eh; 018h; 028h; 018h; 028h; 0feh; 038h; 076h; 038h; 076h; 038h; 076h; 038h; 022h; 028h; 008h; 022h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 0
defb defb defb defb defb defb defb defb	Ocdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 02ch, 025h, 0c4h, 025h, 02ch, 025h, 016h, 023h, 030h, 025h, 020h, 023h, 0cdh, 035h, 02ch, 040h, 030h, 025h, 020h, 023h, 0cdh, 055h, 05ch, 080h, 023h, 020h, 023h, 02ch, 040h, 005h, 05ch, 040h, 033h, 020h, 023h, 02ch, 040h, 05ch, 040h, 055h, 05ch, 0edh, 005h, 02ch, 024h, 026h, 025h, 05ch, 040h, 023h, 0cdh, 025h, 020h, 023h, 03ch, 020h, 05ch, 05ch, 040h, 023h, 020h, 023h, 020h, 010h, 014h, 023h, 040h, 023h, 02ch, 010h, 020h, 023h, 03ch, 020h, 03ah, 03bh, 05ch, 040h, 023h, 040h, 023h, 020h, 040h, 029h, 03ah, 03bh, 05ch, 040h, 020h, 040h, 023h, 020h, 040h, 033h, 010h, 040h, 029h, 03ah, 03bh, 05ch, 040h, 021h, 040h, 023h, 020h, 040h, 03ah, 010h, 040h, 024h, 023h, 020h, 040h, 03ah, 010h, 040h, 020h, 020h, 040h, 040h, 040h, 040h, 040h, 021h, 040h, 023h, 020h, 040h, 040	025h; 030h; 025h; 030h; 006h; 00edh; 018h; 018h; 028h; 018h; 028h; 018h; 028h; 038h; 076h; 038h; 076h; 038h; 001h; 002h; 022h; 022h; 022h; 028h; 005h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 027h; 000h; 000h; 000h; 027h; 000h; 000h; 000h; 000h; 000h; 000h; 000h; 000h; 000h; 000h; 000h; 000h; 000h; 000h; 000h; 000h; 000h; 000h; 000h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 0028h; 002
defb defb defb defb defb defb defb defb	<pre>0cdh, 022h, 025h, 0c4h, 035h, 025h, 0e7h, 0c3h, 0dbh, 025h, 0cdh, 022h, 025h, 0c4h, 080h, 0e7h, 018h, 048h, 0cdh, 022h, 025h, 0c4h, 0cbh, 022h, 0e7h, 018h, 03fh, 0cdh, 088h, 02ch, 056h, 0feh, 041h, 030h, 030h, 023h, 030h, 022h, 065h, 05ch, 00eh, 005h, 0a7h, 042h, 022h, 065h, 05ch, 0edh, 0b0h, 0ebh, 02h, 0cdh, 077h, 000h, 018h, 00eh, 0dfh, 023h, 0feh, 00eh, 020h, 0fah, 023h, 0cdh, 0b4h, 033h, 022h, 05dh, 05ch, 0fah, 0cbh, 0dfh, 0c3h, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0cdh, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 01ch, 0cch, 096h, 029h, 03ah, 03bh, 05ch, 0feh, 0cdh, 014h, 0cdh, 0b2h, 028h, 0dah, 02eh, 0afh, 0dah, 08ah, 01ch, 001h, 0feh, 024h, 028h, 027h, 001h, 010h, 0feh, 0aeh, 028h, 020h, 0dch, 0afh, 0dah, 08ah, 01ch, 001h, 0feh, 024h, 028h, 027h, 001h, 01ch, 0feh, 0aeh, 028h, 02ch, 0afh, 0dah, 0afh, 0dah, 08ah, 01ch, 001h, 0feh, 0adh, 0cbh, 0b1h, 0cbh, 001h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 006h, 000h, 0dch, 0cbh, 0b1h, 0cbh, 001h, 076h, 020h, 017h, 0cdh, 052h, 02ah, 0e7h, 018h, 0f0h, 006h, 000h, 0dch, 0cbh, 02h, 027h, 0cdh, 0dch, 016h, 030h, 006h, 04eh, 021h, 0edh, 026h, 009h, 046h, 0d1h, 07ah, 088h, 03ah, 0a7h, 0cah, 018h, 000h, 0c5h, 021h, 03h, 05ch, 07bh, 0feh, 0edh, 03th, 0dfh, 0cbh, 03sh, 018h, 009h, 07bh, 0dh, 0aeh, 001h, 0e6h, 040h, 0c2h, 08ah, 01ch, 0d1h, 021h, 03bh, 0cbh, 0f6h, 0cbh, 07bh, 020h, 002h, 0cbh, 06h, 0c1h, 018h, 0f1h, 03th, 07h, 0f4h, 0csh, 0dsh, 0csh, 0c5h, 0csh, 0seh, 0sh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0csh, 0csh, 0csh, 0csh, 0csh, 0csh, 0sh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0csh, 0dsh, 0csh, 0csh, 0csh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0csh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0dsh, 0ds</pre>	025h; 030h; 025h; 030h; 006h; 00edh; 018h; 038h; 028h; 01feh; 018h; 028h; 01feh; 038h; 076h; 038h; 076h; 038h; 076h; 038h; 076h; 038h; 001h; 002h; 022h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 028h; 000h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h; 008h;

defb	0f1h,0feh,024h,028h,011h,0cbh,0e9h,0cdh,088h,02ch,030h,00fh,0cdh,088h,02ch,030h;	
defb	016b 0cbb 0b1b 0e7b 018b 0f6b 0e7b 0fdb 0cbb 001b 0b6b 03ab 00cb 05cb 0a7b 028b.	
uerb		
deid	006n,02an,030n,025n,022n,051n,029n,041n,02an,030n,025n,020n,008n,079n,066n,060n;	
defb	0cbh,0ffh,04fh,018h,037h,02ah,04bh,05ch,07eh,0e6h,07fh,028h,02dh,0b9h,020h,022h;	
defb	017h,087h,0f2h,03fh,029h,038h,030h,0d1h,0d5h,0e5h,023h,01ah,013h,0feh,020h,028h;	
defb	0fah.0f6h.020h.0beh.028h.0f4h.0f6h.080h.0beh.020h.006h.01ah.0cdh.088h.02ch.030h;	
defb	015b 0e1b 0c5b 0cdb 0b8b 019b 0ebb 0c1b 018b 0ceb 0cbb 0f8b 0d1b 0dfb 0feb 028b.	
derb		
deib	U28n,UU9n,UCDn,UE8n,UI8n,UUan,Uain,Uain,Uain,Uesn,Uain,UCan,U88n,U2Cn,U30n,UU3n;	
defb	0e7h,018h,0f8h,0e1h,0cbh,010h,0cbh,070h,0c9h,02ah,00bh,05ch,07eh,0feh,029h,0cah;	
defb	0efh,028h,07eh,0f6h,060h,047h,023h,07eh,0feh,00eh,028h,007h,02bh,0cdh,0abh,028h;	
defb	023h,0cbh,0a8h,078h,0b9h,028h,012h,023h,023h,023h,023h,023h,0cdh,0abh,028h,0feh;	
defb	029b 0cab 0efb 028b 0cdb 0abb 028b 018b 0d9b 0cbb 069b 020b 00cb 023b 0edb 05bb.	
derb		
delb	065n, 05cn, 0cdn, 0c0n, 055n, 062n, 022n, 065n, 03cn, 0d1n, 0d1n, 0d1n, 03cn, 0c9n, 0d1n, 047n;	
deib	0cbh,079h,020h,04bh,0cbh,07eh,020h,00eh,03ch,023h,04eh,023h,046h,023h,0ebh,0cdh;	
defb	0b2h,02ah,0dfh,0c3h,049h,02ah,023h,023h,023h,046h,0cbh,071h,028h,00ah,005h,028h;	
defb	0e8h,0ebh,0dfh,0feh,028h,020h,061h,0ebh,0ebh,018h,024h,0e5h,0dfh,0e1h,0feh,02ch;	
defb	028b,020b,0cbb,079b,028b,052b,0cbb,071b,020b,006b,0feb,029b,020b,03cb,0e7b,0c9b;	
dofb	0fob 020b 020b 06cb 0fob 0ccb 020b 032b 0dfb 020b 022b 05db 05cb 010b 05cb 021b.	
derb		
deib	000n,000n,0esn,0e/n,0ein,0/9n,0ien,0con,020n,009n,0ain,0ien,029n,028n,05in,0ien;	
defb	0cch,028h,0e5h,0c5h,0e5h,0cdh,0eeh,02ah,0e3h,0ebh,0cdh,0cch,02ah,038h,019h,00bh;	
defb	0cdh,0f4h,02ah,009h,0d1h,0c1h,010h,0b3h,0cbh,079h,020h,066h,0e5h,0cbh,071h,020h;	
defb	013h,042h,04bh,0dfh,0feh,029h,028h,002h,0cfh,002h,0e7h,0e1h,011h,005h,000h,0cdh;	
defb	0f4b 02ab 009b 0c9b 0c9b 0c4b 0eeb 02ab 0e3b 0c4b 0f4b 02ab 0c1b 009b 023b 042b 04bb	
dofb		
delb		
deib	0e/h,0feh,028h,028h,0f8h,0fah,0cbh,001h,0b6h,0c9h,0cdh,030h,025h,0c4h,0f1h,02bh;	
defb	0e7h,0feh,029h,028h,050h,0d5h,0afh,0f5h,0c5h,011h,001h,000h,0dfh,0e1h,0feh,0cch;	
defb	028h,017h,0f1h,0cdh,0cdh,02ah,0f5h,050h,059h,0e5h,0dfh,0e1h,0feh,0cch,028h,009h;	
defb	0feh,029h,0c2h,08ah,01ch,062h,06bh,018h,013h,0e5h,0e7h,0e1h,0feh,029h,028h,00ch;	
defb	0flb 0cdb 0cdb 02ab 0f5b 0dfb 060b 069b 0feb 020b 020b 0e6b 0flb 0e3b 019b 02bb.	
1-5-		
delb	desn, da/n, dean, dszn, ddin, ddun, ddun, dswn, dd/n, dzsn, da/n, dian, dzen, daan, daan, daan,	
deib	0dlh,0fdh,0cbh,00lh,0b6h,0cdh,030h,025h,0c8h,0afh,0fdh,0cbh,00lh,0b6h,0c5h,0cdh;	
defb	0a9h,033h,0c1h,02ah,065h,05ch,077h,023h,073h,023h,072h,023h,071h,023h,070h,023h;	
defb	022h,065h,05ch,0c9h,0afh,0d5h,0e5h,0f5h,0cdh,082h,01ch,0f1h,0cdh,030h,025h,028h;	
defb	012b.0f5b.0cdb.099b.01eb.0d1b.078b.0b1b.037b.028b.005b.0e1b.0e5b.0a7b.0edb.042b:	
dofb		
uerb		
deib	Ucdh, Ua9h, U30h, Udah, U15h, U1fh, Uc9h, U2ah, U4dh, U5ch, Ufdh, Ucbh, U3/h, U4eh, U28h, U5eh;	
defb	001h,005h,000h,003h,023h,07eh,0feh,020h,028h,0fah,030h,00bh,0feh,010h,038h,011h;	
defb	0feh,016h,030h,00dh,023h,018h,0edh,0cdh,088h,02ch,038h,0e7h,0feh,024h,0cah,0c0h;	
defb	02bh,079h,02ah,059h,05ch,02bh,0cdh,055h,016h,023h,023h,0ebh,0d5h,02ah,04dh,05ch;	
defb	01bb 0d6b 006b 047b 028b 011b 023b 07eb 0feb 021b 038b 0feb 0f6b 020b 013b 012b.	
defb	(10h) 05h) 05h 05h 02h 02h 02h 02h 02h 02h 02h 02h 02h 02	
deib	010h, 014h, 016h, 080h, 012h, 03eh, 0c0h, 02h, 04ch, 03ch, 04ch, 016h, 020h, 0e1h, 0cah, 0eah;	
deib	02bh,0e5h,0efh,002h,038h,0efh,001h,005h,000h,0a/h,0edh,042h,018h,040h,0fdh,0cbh;	
defb	001h,076h,028h,006h,011h,006h,000h,019h,018h,0e7h,02ah,04dh,05ch,0edh,04bh,072h;	
defb	05ch,0fdh,0cbh,037h,046h,020h,030h,078h,0b1h,0c8h,0e5h,0f7h,0d5h,0c5h,054h,05dh;	
defb	023h,036h,020h,0edh,0b8h,0e5h,0cdh,0f1h,02bh,0e1h,0e3h,0a7h,0edh,042h,009h,030h;	
defb	002b 044b 04db 0e3b 0ebb 078b 0b1b 028b 002b 0edb 0b0b 0c1b 0db 0e1b 0ebb 078b.	
derb		
deib	UDIN, UC8N, Ud5N, Udan, UDUN, UEIN, UC9N, U2DN, U2DN, U2DN, U/EN, UC5N, UC5N, UCAN, UC6N, U2DN;	
defb	0clh,0elh,003h,003h,003h,0c3h,0e8h,019h,03eh,0dfh,02ah,04dh,05ch,0a6h,0f5h,0cdh;	
defb	0f1h,02bh,0ebh,009h,0c5h,02bh,022h,04dh,05ch,003h,003h,003h,02ah,059h,05ch,02bh;	
defb	0cdh,055h,016h,02ah,04dh,05ch,0c1h,0c5h,003h,0edh,0b8h,0ebh,023h,0c1h,070h,02bh;	
defb	071b.0f1b.02bb.077b.02ab.059b.05cb.02bb.0c9b.02ab.065b.05cb.02bb.046b.02bb.04eb.	
defb	02bb 056b 02bb 05eb 02bb 07eb 022b 065b 05cb 050b 0cdb 0b2b 028b 0c2b 08ab 01cb	
derb		
delb		
deib	Ucan, Ub8n, U19n, Ucan, Ue8n, U19n, Uc1n, Ucbn, U19n, U06n, U00n, Uc5n, U21n, U01n, U00n, Ucbn;	
defb	071h,020h,002h,02eh,005h,0ebh,0e7h,026h,0ffh,0cdh,0cch,02ah,0dah,020h,02ah,0e1h;	
defb	0c5h,024h,0e5h,060h,069h,0cdh,0f4h,02ah,0ebh,0dfh,0feh,02ch,028h,0e8h,0feh,029h;	
defb	020h.0bbh.0e7h.0c1h.079h.068h.026h.000h.023h.023h.029h.019h.0dah.015h.01fh.0d5h:	
defb	0c5h 0e5h 044h 044h 02ah 059h 05ch 02bh 0c4h 055h 016h 023h 077h 0c1h 00bh 00bh	
dofb		
delb		
deib	U28n, UU2n, U30n, U2Un, UC1n, Uean, U88n, UC1n, U/Un, U2Bn, U/1n, U2Bn, U3an, U2Un, U18n, UC9n;	
defb	ucan,ulan,Ulan,Ulan,Udan,Uten,U4lh,U3th,UdUh,Uteh,U5bh,Od8h,Ofeh,O6lh,O3fh,Od0h;	
defb	0feh,07bh,0c9h,0feh,0c4h,020h,019h,011h,000h,000h,0e7h,0d6h,031h,0ceh,000h,020h;	
defb	00ah,0ebh,03fh,0edh,06ah,0dah,0adh,031h,0ebh,018h,0efh,042h,04bh,0c3h,02bh,02dh;	
defb	0feh,02eh,028h,00fh,0cdh,03bh,02dh,0feh,02eh.020h.028h.0e7h.0cdh.01bh.02dh.038h:	
defb	022b 018b 00ab 0e7b 0cdb 01bb 02db 0dab 08ab 01cb 0efb 0a0b 038b 0efb 0a1b 0c0b	
dofb	0.02h 0.39h 0.dfh 0.dh 0.22h 0.22h 0.24h 0.0hh 0.ofh 0.ofh 0.0h 0.0h 0.04h 0.0fh 0.38h	
uerb		
deib	Ue/n, UI8n, UEIn, UIEn, U45n, U28n, U03n, UIEn, U65n, UCUn, UU6n, UIIn, Ue/n, UIEn, U28n, U28n;	
deib	005h,0feh,02dh,020h,002h,004h,0e7h,0cdh,01bh,02dh,038h,0cbh,0c5h,0cdh,03bh,02dh;	
defb	0cdh,0d5h,02dh,0c1h,0dah,0adh,031h,0a7h,0fah,0adh,031h,004h,028h,002h,0edh,044h;	
defb	0c3h,04fh,02dh,0feh,030h,0d8h,0feh,03ah,03fh,0c9h,0cdh,01bh,02dh,0d8h,0d6h,030h;	
defb	04fh,006h,000h,0fdh,021h,03ah,05ch,0afh,05fh.051h.048h.047h.0cdh.0b6h.02ah.0efh:	
defh	038b.0a7b.0c9b.0f5b.0efb.0a0b.038b.0f1b.0cdb.022b.02db.048b.0efb.001b.0a4b.0c4b.	
de fr	Off Oak Oak Oak Oak off Off Off Off Off Off Oak Oak Oak Oak Oak Oak Oak Oak	
aisp	our, oson, ocan, o'4n, ooon, olan, ourn, oorn, ooln, oson, ouzn, olan, olan, olan, olan, oyan, oyan, olan, oyan	
defb	<pre>uscn,ucan,uubn,ussn,uein,ua4n,ussh,uilh,ucbh,usih,usuh,00dh,0f5h,0efh,0clh,0e0h;</pre>	
defb	000h,004h,004h,033h,002h,005h,0e1h,038h,0f1h,028h,008h,0f5h,0efh,031h,004h,038h;	
defb	0f1h,018h,0e5h,0efh,002h,038h,0c9h,023h,04eh,023h,07eh,0a9h,091h,05fh,023h,07eh;	
defh	089h,0a9h,057h,0c9h,00eh,000h,0e5h.036h.000h.023h.071h.023h.07bh.0a9h.091h.077b.	
defb	023h.07ah.089h.039h.077h.023h.036h.000h.0e1h.0c9h.0e7h.038h.07eh.0a7h.028h.025h.	
do fh	ash ash off and an and an ash	
derb	oph orb orb of the off off off off off off off off off of	
deib	Uyun, Ucpn, U/yh, U42h, U4ph, U/ph, Udin, Uein, Ucyh, U5/h, U1/h, U9th, U5th, U4th, Uafh, 047h;	
defb	0cdh,0b6h,02ah,0efh,034h,0efh,01ah,020h,09ah,085h,004h,027h,038h,0cdh,0a2h,02dh;	
defb	0d8h,0f5h,005h,004h,028h,003h,0f1h,037h,0c9h,0f1h,0c9h,0efh,031h,036h,000h,00bh;	
defb	031h,037h,000h,00dh,002h,038h,03eh,030h,0d7h.0c9h.02ah.038h.03eh.02dh.0d7h.0efh:	
defh	0a0h.0c3h.0c4h.0c5h.002h.03h.0d9h.0e5h.0d9h 0efh 03h 027h 0c2h 003h 0e2h 001h.	
dern		
aeib	oczn, oozn, oson, ozen, ozen, ozen, ozen, ozen, ozen, ozen, obon, oton, ozen, ozen, ozen, ozen, ozen, ozen, ozen	

defb	0b3b.028b.009b.053b.006b.008b.0d5b.0d9b.0d1b.0d9b.018b.057b.0efb.0e2b.038b.07eb;	
dofb	Odeb 07cb 0cdb 0clb 02cb 05cb 05cb 05cb 02cb 03cb 05cb 05cb 05cb 07cb 0cdb 0db	
uerb		
deib	02dh,0efh,031h,027h,0c1h,003h,0e1h,038h,0cdh,0d5h,02dh,0e5h,032h,0a1h,05ch,03dh;	
defb	017h,09fh,03ch,021h,0abh,05ch,077h,023h,086h,077h,0e1h,0c3h,0cfh,02eh,0d6h,080h;	
defb	0feh,01ch,038h,013h,0cdh,0c1h,02dh,0d6h,007h,047h,021h,0ach,05ch,086h,077h,078h;	
defb	0edh,044h,0cdh,04fh,02dh,018h,092h,0ebh,0cdh,0bah,02fh,0d9h,0cbh,0fah,07dh,0d9h;	
dofb	ddb 000b 047b 0abb 022b 0abb 012b 0db 0abb 012b 0abb 012b 0db 012b 0db 022b 0abb	
derb		
deib	00eh,005h,07eh,08fh,027h,077h,02bh,00dh,020h,0f8h,010h,0e7h,0afh,021h,0a6h,05ch;	
defb	011h,0a1h,05ch,006h,009h,0edh,06fh,00eh,0ffh,0edh,06fh,020h,004h,00dh,00ch,020h;	
defb	00ah,012h,013h,0fdh,034h,071h,0fdh,034h,072h,00eh,000h,0cbh,040h,028h,001h,023h;	
defb	010h.0e7h.03ah.0abh.05ch.0d6h.009h.038h.00ah.0fdh.035h.071h.03eh.004h.0fdh.0beh:	
defb	06fb 018b 041b 0efb 002b 0e2b 038b 0ebb 0cdb 0beb 02fb 0d9b 03eb 08bb 095b 02eb.	
de fb		
delb		
deib	012h,0d9h,018h,020h,001h,000h,002h,07bh,0cdh,08bh,02fh,05fh,07ah,0cdh,08bh,02fh;	
defb	057h,0c5h,0d9h,0c1h,010h,0f1h,021h,0a1h,05ch,079h,0fdh,04eh,071h,009h,077h,0fdh;	
defb	034h,071h,018h,0d3h,0f5h,021h,0a1h,05ch,0fdh,04eh,071h,006h,000h,009h,041h,0f1h;	
defb	02bh.07eh.0ceh.000h.077h.0a7h.028h.005h.0feh.00ah.03fh.030h.008h.010h.0f1h.036h:	
defb	001h 004h 0fdh 034h 072h 0fdh 070h 071h 0efh 002h 038h 0d9h 0e1h 0d9h 0edh 04hb.	
dofb		
delb		
deib	Uern, Uisn, Uarn, UgUn, Uran, Us2n, Uzrn, U4/n, Ui8n, UUcn, U/gn, Ua/n, U28n, UU3n, U/en, U23n;	
defb	00dh,0cdh,0efh,015h,010h,0f4h,079h,0a7h,0c8h,004h,03eh,02eh,0d7h,03eh,030h,010h;	
defb	0fbh,041h,018h,0e6h,050h,015h,006h,001h,0cdh,04ah,02fh,03eh,045h,0d7h,04ah,079h;	
defb	0a7h,0f2h,083h,02fh,0edh,044h,04fh,03eh,02dh,018h,002h,03eh,02bh,0d7h,006h,000h;	
defb	0c3h.01bh.01ah.0d5h.06fh.026h.000h.05dh.054h.029h.029h.019h.029h.059h.019h.04ch:	
defb	0.7db $0.4$ lb $0.7$ eb $0.7$ eb $0.3$ 6b $0.0$ lb $0.3$ 7b $0.2$ 3b $0.2$ 3b $0.7$ eb $0.7$ eb $0.6$ bb $0.6$ eb $0.2$ sb $0.6$ Sb $0.6$ Sb	
defb		
delb		
deib	UCIN, UC9h, UE5h, UI5h, U4eh, U23h, U4eh, U7h, U23h, U7h, U4eh, UC5h, U23h, U4eh, U23h, U4eh;	
defb	0ebh,057h,05eh,0d5h,023h,056h,023h,05eh,0d5h,0d9h,0d1h,0e1h,0c1h,0d9h,023h,056h;	
defb	023h,05eh,0f1h,0e1h,0c9h,0a7h,0c8h,0feh,021h,030h,016h,0c5h,047h,0d9h,0cbh,02dh;	
defb	0cbh,01ah,0cbh,01bh,0d9h,0cbh,01ah,0cbh,01bh,010h,0f2h,0c1h,0d0h,0cdh,004h,030h;	
defb	0c0b 0d9b 0afb 02eb 000b 057b 05db 0d9b 011b 000b 0c9b 01cb 0c0b 014b 0c0b	
dofb		
uerb		
deib	udsh, U23h, Uesh, U23h, Useh, U23h, Useh, U23h, U23h, U23h, U2sh, U2sh, U4eh, U23h, U4eh, Ueih;	
deib	0ebh,009h,0ebh,08eh,00fh,0ceh,000h,020h,00bh,09fh,077h,023h,073h,023h,072h,02bh;	
defb	02bh,02bh,0d1h,0c9h,02bh,0d1h,0cdh,093h,032h,0d9h,0e5h,0d9h,0d5h,0e5h,0cdh,09bh;	
defb	02fh,047h,0ebh,0cdh,09bh,02fh,04fh,0b8h,030h,003h,078h,041h,0ebh,0f5h,090h,0cdh;	
defb	0bah.02fh.0cdh.0ddh.02fh.0f1h.0e1h.077h.0e5h.068h.061h.019h.0d9h.0ebh.0edh.04ah:	
defb	Nebb 07cb 08db 06fb 01fb 02db 0d9b 0ebb 0e1b 01fb 030b 008b 03eb 001b 0cdb 0ddb.	
defb		
deib	021n, 034n, 028n, 023n, 049n, 074n, 066n, 080n, 049n, 023n, 077n, 028n, 012n, 078n, 060n, 064n,	
deib	044h, 03fh, 05fh, 0/ah, 02fh, 0ceh, 000h, 05/h, 0d9h, 0/bh, 02fh, 0ceh, 000h, 05fh, 0/ah, 02fh;	
defb	0ceh,000h,030h,007h,01fh,0d9h,034h,0cah,0adh,031h,0d9h,057h,0d9h,0afh,0c3h,055h;	
defb	031h,0c5h,006h,010h,07ch,04dh,021h,000h,000h,029h,038h,00ah,0cbh,011h,017h,030h;	
defb	003h,019h,038h,002h,010h,0f3h,0c1h,0c9h,0cdh,0e9h,034h,0d8h,023h,0aeh,0cbh,0feh;	
defb	02bb 0c9b 01ab 0b6b 020b 022b 0d5b 0e5b 0d5b 0cdb 07fb 02db 0ebb 0e3b 041b 0cdb	
dofb	0.756 0.266 0.786 0.266 0.456 0.216 0.266 0.206 0.206 0.206 0.216 0.286 0.026 0.756 0.206	
derb		
delb	001n, 041n, 0can, 08en, 02an, 0a1n, 0c9n, 0a1n, 0can, 095n, 032n, 0a1n, 0can, 0con, 030n, 0a8n;	
deib	0d9h,0e5h,0d9h,0d5h,0ebh,0cdh,0c0h,030h,0ebh,038h,05ah,0e5h,0cdh,0bah,02fh,078h;	
defb	0a7h,0edh,062h,0d9h,0e5h,0edh,062h,0d9h,006h,021h,018h,011h,030h,005h,019h,0d9h;	
defb	0edh,05ah,0d9h,0d9h,0cbh,01ch,0cbh,01dh,0d9h,0cbh,01ch,0cbh,01dh,0d9h,0cbh,018h;	
defb	0cbh,019h,0d9h,0cbh,019h,01fh,010h,0e4h,0ebh,0d9h,0ebh,0d9h,0c1h,0e1h,078h,081h;	
defb	020h,001h,0a7h,03dh,03fh,017h,03fh,01fh,0f2h,046h,031h,030h,068h,0a7h,03ch,020h;	
dofb	0.0%h 0.3%h 0.04%h 0.5%h 0.7%h 0.4%h 0.2%h 0.5%h 0.7%h 0.4%h 0.3%h 0.4%h 0.1%h 0.1%h 0.7%h	
defb		
deib	ua/n, 03en, 08on, 02an, 00in, 0ain, 0ain, 0ain, 0in, 0in, 0in, 0/n, 0/n, 03an, 02en, 02an,	
deib	0//n,02bn,018n,029n,006n,020n,0d9n,0cbn,0/an,0d9n,020n,012n,00/n,0cbn,013n,0cbn;	
defb	012h,0d9h,0cbh,013h,0cbh,012h,0d9h,035h,028h,0d7h,010h,0eah,018h,0d7h,017h,030h;	
defb	00ch,0cdh,004h,030h,020h,007h,0d9h,016h,080h,0d9h,034h,028h,018h,0e5h,023h,0d9h;	
defb	0d5h,0d9h,0c1h,078h,017h,0cbh,016h,01fh,077h,023h,071h,023h,072h,023h,073h,0e1h;	
defb	0d1h.0d9h.0e1h.0d9h.0c9h.0cfh.005h.0cdh.093h.032h.0eph.0afh.0cdh.0c0h.030h.038h:	
defb	0f4h 0ebh 0cdh 0c0h 030h 0d8h 0d9h 0e5h 0d9h 0d5h 0e5h 0cdh 0bah 02fh 0d9h 0e5h.	
dofb		
uerb		
deib	UCDR, Ulur, Udan, Uzan, Udan, Uedan, Udan, Udan, Ulan, Ulur, Uedan, Uszn, Udan, Uedan, Uszn, Udan,	
deib	030n,00fn,019n,0d9n,0edh,05an,0d9n,0a/n,018n,008n,0a/n,0edh,052n,0d9n,0edh,052n;	
defb	0d9h,037h,004h,0fah,0d2h,031h,0f5h,028h,0e1h,05fh,051h,0d9h,059h,050h,0f1h,0cbh;	
defb	018h,0f1h,0cbh,018h,0d9h,0c1h,0e1h,078h,091h,0c3h,03dh,031h,07eh,0a7h,0c8h,0feh;	
defb	081h,030h,006h,036h,000h,03eh,020h,018h,051h,0feh,091h,020h,01ah,023h,023h,023h;	
defb	03eh.080h.0a6h.02bh.02bh.02bh.020h.003h.03eh.080h.0aeh.02bh.020h.036h.077h.023h:	
defb	036h 0ffh 02bh 03eh 018h 018h 033h 030h 02ch 0d5h 02fh 0c6h 091h 023h 056h 023h	
dofb		
de fb		
deib	0388, 0048, 0388, 0188, 0100, 0308, 0288, 0078, 0478, 0588, 0588, 0588, 0188, 0188, 0188, 0188, 0188, 0188, 018	
defb	usen,uzan,udih,ucyh,u/eh,udéh,uauh,uiuh,0edh,044h,0d5h,0ebh,02bh,047h,0cbh,038h;	
defb	0cbh,038h,0cbh,038h,028h,005h,036h,000h,02bh,010h,0fbh,0e6h,007h,028h,009h,047h;	
defb	03eh,0ffh,0cbh,027h,010h,0fch,0a6h,077h,0ebh,0d1h,0c9h,0cdh,096h,032h,0ebh,07eh;	
defb	0a7h,0c0h,0d5h,0cdh,07fh,02dh,0afh,023h,077h,02bh,077h,006h,091h,07ah,0a7h,020h;	
defb	008h,0b3h,042h,028h,010h,053h,058h,006h,089h,0ebh,005h,029h,030h,0fch.0cbh,009h	
defh	0cbb.01cb.0cbb.01db.0cbb.02bb.073b.02bb.072b.02bb.070b.0d1b.0cdb.000b.0b0b.000b	
dofb	AND ADD AND AND AND ADD ADD ADD ADD ADD	
derp	olon, obon, oton, oton, oton, oton, oton, oton, oton, oton, oton, odan, odan, odan, oton, oton	
defb	Uson, Usch, Usqn, Uain, Ussn, UUrn, UsUn, Ucah, UsUn, Uain, U31h, 051h, 038h, 01bh, 035h, 024h;	
defb	035h,03bh,035h,03bh,035h,03bh,035h,03bh,035h,03bh,035h,03bh,035h,014h,030h,02dh;	
defb	035h,03bh,035h,03bh,035h,03bh,035h,03bh,035h,03bh,035h,03bh,035h,09ch,035h,0deh;	
defb	035h,0bch,034h,045h,036h,06eh,034h,069h,036h,0deh,035h,074h,036h,0b5h,037h.0aah;	
defb		
uern	037h,0dah,037h,033h,038h,043h,038h,0e2h,037h.013h.037h.0c4h.036h.0afh.036h.04ah:	
defb	037h,0dah,037h,033h,038h,043h,038h,0e2h,037h,013h,037h,0c4h,036h,0afh,036h,04ah; 038h,092h,034h,06ah,034h,0ach,034h,0a5h,034h,0b3h,034h,01fh,036h,0c9h,035h,001h,	
defb	037h,0dah,037h,033h,038h,043h,038h,0e2h,037h,013h,037h,0c4h,036h,0afh,036h,04ah; 038h,092h,034h,06ah,034h,0ach,034h,0a5h,034h,005h,034h,01fh,036h,0c9h,035h,001h; 035b,0c0h,035h,0c0h,036h,046h,0ach,023h,023h,025h,025h,035h,001h;	
defb defb	037h,0dah,037h,033h,038h,043h,038h,0e2h,037h,013h,037h,0c4h,036h,0afh,036h,04ah; 038h,092h,034h,06ah,034h,0ach,034h,0a5h,034h,0b3h,034h,01fh,036h,0c9h,035h,001h; 035h,0c0h,033h,0a0h,036h,086h,036h,0c6h,033h,07ah,036h,006h,035h,0f9h,034h,09bh;	
defb defb defb	037h,0dah,037h,033h,038h,043h,038h,0e2h,037h,013h,037h,0c4h,036h,0afh,036h,04ah; 038h,092h,034h,06ah,034h,0ach,034h,0a5h,034h,0b3h,034h,01fh,036h,0c9h,035h,001h; 035h,0c0h,033h,0a0h,036h,086h,036h,0c6h,033h,07ah,036h,006h,035h,0f9h,034h,09bh; 036h,083h,037h,014h,032h,0a2h,033h,04fh,02dh,097h,032h,049h,034h,01bh,034h,02dh;	

deib	05ch,0d9h,07eh,023h,0e5h,0a7h,0f2h,080h,033h,057h,0e6h,060h,00fh,00fh,00fh,00fh;
defb	0c6h,07ch,06fh,07ah,0e6h,01fh,018h,00eh,0feh,018h,030h,008h,0d9h,001h,0fbh,0ffh;
defb	054b 054b 009b 049b 007b 06fb 011b 047b 032b 026b 000b 019b 05eb 023b 056b 021b.
derb	
deib	U65h,U33h,Ue3h,Ud5h,Ud9h,Uedh,U4bh,U66h,U5ch,Uc9h,Ufih,U3ah,U6/h,U5ch,Ud9h,U18h;
defb	<pre>0c3h,0d5h,0e5h,001h,005h,000h,0cdh,005h,01fh,0e1h,0d1h,0c9h,0edh,05bh,065h,05ch;</pre>
defb	0cdh.0c0h.033h.0edh.053h.065h.05ch.0c9h.0cdh.0a9h.033h.0edh.0b0h.0c9h.062h.06bh;
dofb	adb $abb$ $abb$ $abb$ $adb$ $abb$ $adb$ $abb$
uerb	
deib	Ue6h,U3in,U2Uh,UU2h,U23h,U7eh,Uc6h,U5Uh,U12h,U3eh,U05h,U91h,U23h,U13h,U06h,U0Uh;
defb	0edh,0b0h,0c1h,0e3h,0d9h,0e1h,0d9h,047h,0afh,005h,0c8h,012h,013h,018h,0fah,0a7h;
defb	0c8h,0f5h,0d5h,011h,000h,000h,0cdh,0c8h,033h,0d1h,0f1h,03dh,018h,0f2h,04fh,007h;
defb	007b 081b 04fb 006b 000b 009b 0c9b 0d5b 02ab 068b 05cb 0cdb 006b 034b 0cdb 0c0b
derb	
deib	U33n,Uein,Ueyn,U62n,U6bn,Uayn,Uesn,U2in,Ucsn,U32n,Uayn,Ucan,Uf/n,U33n,Ucan,Uc8n;
defb	033h,0d9h,0e1h,0d9h,0c9h,0e5h,0ebh,02ah,068h,05ch,0cdh,006h,034h,0ebh,0cdh,0c0h;
defb	033h,0ebh,0e1h,0c9h,006h,005h,01ah,04eh,0ebh,012h,071h,023h,013h,010h,0f7h,0ebh;
defb	0c9h,047h,0cdh,05eh,033h,031h,00fh,0c0h,002h,0a0h,0c2h,031h,0e0h,004h,0e2h,0c1h;
defb	003b 038b 0cdb 0c6b 033b 0cdb 062b 033b 00fb 001b 0c2b 002b 035b 0eeb 0e1b 003b.
derb	
deib	U38n,UC9n,UU6n,UIIn,UI8n,UU6n,UCan,UE9n,U34n,Ud8n,UU6n,UU0n,U7en,Ud7n,U28n,UU6n;
defb	023h,078h,0e6h,080h,0b6h,017h,03fh,01fh,077h,02bh,0c9h,0d5h,0e5h,0cdh,07fh,02dh;
defb	0e1h,078h,0b1h,02fh,04fh,0cdh,08eh,02dh,0d1h,0c9h,0cdh,0e9h,034h,0d8h,0d5h,011h;
defb	001h.000h.023h.0cbh.016h.02bh.09fh.04fh.0cdh.08eh.02dh.0d1h.0c9h.0cdh.099h.01eh:
dofb	and a creb all h and a control and a control and a creb a control and a
derb	
deib	02dh,0e5h,0c5h,0c9h,0cdh,0fih,02bh,00bh,078h,0bih,020h,023h,01ah,0cdh,08dh,02ch;
defb	038h,009h,0d6h,090h,038h,019h,0feh,015h,030h,015h,03ch,03dh,087h,087h,087h,0feh;
defb	0a8h,030h,00ch,0edh,04bh,07bh,05ch,081h,04fh,030h,001h,004h,0c3h,02bh,02dh,0cfh;
defb	009b 0e5b 0c5b 047b 07eb 023b 0b6b 023b 0b6b 023b 0b6b 078b 0c1b 0e1b 0c0b 037b.
dofb	
derp	
deib	0aeh,02bh,007h,0e5h,03eh,000h,077h,023h,077h,023h,017h,01fh,01fh,023h,077h,023h;
defb	077h,0e1h,0c9h,0ebh,0cdh,0e9h,034h,0ebh,0d8h,037h,018h,0e7h,0ebh,0cdh,0e9h,034h;
defb	0ebh,0d0h,0a7h,018h,0deh,0ebh,0cdh,0e9h,034h,0ebh,0d0h,0d5h,01bh,0afh,012h,01bh;
defb	012b 0d1b 0c9b 078b 0d6b 008b 0cbb 057b 020b 001b 03db 00fb 030b 008b 0f5b 0c5b.
derb	
deib	Ucan, U3cn, U34n, Uain, Uebn, UIIn, Ucbn, U5/n, U2Un, UU/n, UUIn, UISn, Ucan, UUIn, U3Un, U18n;
defb	033h,00fh,0f5h,0cdh,0f1h,02bh,0d5h,0c5h,0cdh,0f1h,02bh,0e1h,07ch,0b5h,0e3h,078h;
defb	020h,00bh,0b1h,0c1h,028h,004h,0f1h,03fh,018h,016h,0f1h,018h,013h,0b1h,028h,00dh;
defb	01ah,096h,038h,009h,020h,0edh,00bh,013h,023h,0e3h,02bh,018h,0dfh,0c1h,0f1h,0a7h;
defb	0f5b 0efb 0a0b 038b 0f1b 0f5b 0dcb 001b 035b 0f1b 0f5b 0d4b 0f4b 034b 0f1b 00fb.
de fib	
deib	Ud4n, UUIn, U35n, UC9n, UCan, UIIn, U2bn, Ud5n, UC5n, UCan, UIIn, U2bn, UeIn, Ue5n, Ud5n, UC5n;
defb	009h,044h,04dh,0f7h,0cdh,0b2h,02ah,0c1h,0e1h,078h,0b1h,028h,002h,0edh,0b0h,0c1h;
defb	0e1h,078h,0b1h,028h,002h,0edh,0b0h,02ah,065h,05ch,011h,0fbh,0ffh,0e5h,019h,0d1h;
defb	0c9h,0cdh,0d5h,02dh,038h,00eh,020h,00ch,0f5h,001h,001h,000h,0f7h,0f1h,012h,0cdh;
defb	0b2b 02ab 0ebb 0c9b 0cfb 00ab 02ab 05db 05cb 0e5b 078b 0c6b 0e3b 09fb 0f5b 0cdb.
de fb	
delb	0111, 0251, 0d51, 0051, 0171, 0e11, 0ean, 0551, 05an, 05cn, 0d51, 0ean, 0b01, 0ebn, 0251, 0561;
defb	00dh,0fdh,0cbh,001h,0beh,0cdh,0fbh,024h,0dfh,0feh,00dh,020h,007h,0e1h,0f1h,0fdh;
defb	0aeh,001h,0e6h,040h,0c2h,08ah,01ch,022h,05dh,05ch,0fdh,0cbh,001h,0feh,0cdh,0fbh;
defb	024h.0e1h.022h.05dh.05ch.018h.0a0h.001h.001h.000h.0f7h.022h.05bh.05ch.0e5h.02ah:
dofb	051h 05ch 05ch 03ch 0ffh 0cdh 001h 016h 0cdh 0c3h 0cdh 0c1h 0cdh 015h 016h 0dh
derb	
deib	Uzan, USbn, UScn, Ua/n, Uean, USzn, U44n, U4an, Ucan, Ubzn, Uzan, Uebn, Ucyn, Ucan, U94n, U1en;
defb	0feh,010h,0d2h,09fh,01eh,02ah,051h,05ch,0e5h,0cdh,001h,016h,0cdh,0e6h,015h,001h;
defb	000h,000h,030h,003h,00ch,0f7h,012h,0cdh,0b2h,02ah,0e1h,0cdh,015h,016h,0c3h,0bfh;
defb	035h,0cdh,0f1h,02bh,078h,0b1h,028h,001h,01ah,0c3h,028h,02dh,0cdh,0f1h,02bh,0c3h;
defb	02bb 02db 0d9b 0e5b 021b 067b 05cb 035b 0e1b 020b 004b 023b 0d9b 0c9b 0d9b 05eb.
derb	
delb	0/bh,01/h,03/h,03/h,019h,003h,003h,013h,013h,015h,01bh,01bh,02h,02h,0eth,003h;
deib	023h,0d9h,0c9h,0f1h,0d9h,0e3h,0d9h,0c9h,0efh,0c0h,002h,031h,0e0h,005h,027h,0e0h;
defb	001h,0c0h,004h,003h,0e0h,038h,0c9h,0efh,031h,036h,000h,004h,03ah,038h,0c9h,031h;
defb	03ah,0c0h,003h,0e0h,001h,030h,000h,003h,0a1h,003h,038h,0c9h,0efh,03dh,034h,0f1h;
defb	038h,0aah,03bh,029h,004h,031h,027h,0c3h,003h,031h,00fh,0a1h,003h,088h,013h,036h;
defb	058b 065b 066b 09db 078b 065b 040b 0-2b 060b 032b 060b 0-7b 021b 057b 0-fb 024b.
de fb	
delb	0ebn, 021n, 0b0n, 014n, 0een, 07en, 0bbn, 094n, 058n, 011n, 05an, 07en, 018n, 0C1n, 0e5n;
deib	038h,0cdh,0d5h,02dh,020h,007h,038h,003h,086h,030h,009h,0cfh,005h,038h,007h,096h;
defb	030h,004h,0edh,044h,077h,0c9h,0efh,002h,0a0h,038h,0c9h,0efh,03dh,031h,037h,000h;
defb	004h,038h,0cfh,009h,0a0h,002h,038h,07eh,036h,080h,0cdh,028h,02dh,0efh,034h,038h;
defb	000h,003h,001h,031h,034h,0f0h,04ch,0cch,0cch,0cdh,003h,037h,000h,008h,001h,0a1h;
dofb	003b 001b 020b 034b 0.5b 001b 034b 050b 031b 072b 017b 050b 004b 001b 0.2b 003b
derb	
deib	Ua2h,UU3h,U31h,U34h,U32h,U20h,U04h,Ua2h,UU3h,U8ch,U11h,Uach,U14h,UU9h,U56h,Udah;
defb	0a5h,059h,030h,0c5h,05ch,090h,0aah,09eh,070h,06fh,061h,0a1h,0cbh,0dah,096h,0a4h;
defb	031h,09fh,0b4h,0e7h,0a0h,0feh,05ch,0fch,0eah,01bh,043h,0cah,036h,0edh,0a7h,09ch;
defb	07eh.05eh.0f0h.06eh.023h.080h.093h.004h.00fh.038h.0c9h.0efh.03dh.034h.0eeh.022h:
dofb	0.50b 0.02b 0.6cb 0.04b 0.21b 0.22b 0.05b 0.27b 0.03b 0.31b 0.05b 0.31b 0.05b 0.31b 0.2cb 0.21b
d-fl	
alen	0001,0511,0571,0001,0001,0041,0021,0381,0021,041,0031,0011,0361,0001,0021,0156;
defb	U38h,Uc9h,Uefh,O39h,O2ah,Oalh,O03h,OeOh,O0Oh,O06h,O1bh,O33h,O03h,Oefh,O39h,O31h;
defb	031h,004h,031h,00fh,0a1h,003h,086h,014h,0e6h,05ch,01fh,00bh,0a3h,08fh,038h,0eeh;
defb	0e9h,015h,063h,0bbh,023h,0eeh,092h,00dh,0cdh,0edh,0f1h.023h.05dh.01bh.0eah.004h:
defb	038b 0c9b 0afb 031b 01fb 001b 020b 005b 038b 0c9b 0c7b 032b 07ab 0fcb 041b
J-C	
aeib	usan, uuen, uein, uain, uinn, uun, uusin, usin, usan, uuin, uuin, uuun, uuen, uinn, 033h, 003h;
defb	Uein,UaUn,UUin,U3ih,U3ih,UU4h,U3ih,UUih,Ualh,U03h,08ch,O10h,Ob2h,O13h,O0eh,O55h;
defb	0e4h,08dh,058h,039h,0bch,05bh,098h,0fdh,09eh,000h,036h,075h,0a0h,0dbh,0e8h,0b4h;
defb	063h,042h,0c4h,0e6h,0b5h,009h,036h,0beh,0e9h.036h.073h.01bh.05dh.0ech.0d8h.0deh:
dofh	AG3b Abeb AfAb AG1b Ag1b Ab3b AAcb AAcb AAcb Accb Accb Accb Ag1b Ag1b Actb Actb
de LD	obshy observation, ooth, oath, obshy obsh
alen	0001,01501,0201,0011,0011,00201,0241,0311,0011,0381,00291,0021,0221,0331,0031,015h;
defb	U38h,Uc9h,Uefh,O31h,O30h,O00h,O1eh,Oa2h,O38h,Oefh,O01h,O31h,O30h,O00h,O07h,O25h;
defb	004h,038h,0c3h,0c4h,036h,002h,031h,030h,000h,009h,0a0h,001h,037h,000h,006h,0a1h;
defh	001h.005h.002h.0a1h.038h.0c9h:

Characte	rs:		
	defb		010h,010h,010h,010h,000h,010h;
	defb	024h,024h,000h,000h,000h,000h,	024h,07eh,024h,024h,07eh,024h;
	defb	008h,03eh,028h,03eh,00ah,03eh,	062h,064h,008h,010h,026h,046h;
	defb	010h,028h,010h,02ah,044h,03ah,	008h,010h,000h,000h,000h;
	defb	004h,008h,008h,008h,008h,004h,	020h,010h,010h,010h,010h,020h;
	defb	000h,014h,008h,03eh,008h,014h,	000h,008h,008h,03eh,008h,008h;
	defb	000h,000h,000h,000h,008h,008h,	000h,000h,000h,03eh,000h,000h;
	defb	000h,000h,000h,000h,018h,018h,	000h,002h,004h,008h,010h,020h;
	defb	03ch,046h,04ah,052h,062h,03ch,	018h,028h,008h,008h,008h,03eh;
	defb	03ch,042h,002h,03ch,040h,07eh,	03ch,042h,00ch,002h,042h,03ch;
	defb	008h,018h,028h,048h,07eh,008h,	07eh,040h,07ch,002h,042h,03ch;
	defb	03ch,040h,07ch,042h,042h,03ch,	07eh,002h,004h,008h,010h,010h;
	defb	03ch,042h,03ch,042h,042h,03ch,	03ch,042h,042h,03eh,002h,03ch;
	defb	000h,000h,010h,000h,000h,010h,	000h,010h,000h,000h,010h,010h;
	defb	000h,004h,008h,010h,008h,004h,	000h,000h,03eh,000h,03eh,000h;
	defb	000h,010h,008h,004h,008h,010h,	03ch,042h,004h,008h,000h,008h;
	defb	03ch,04ah,056h,05eh,040h,03ch,	03ch,042h,042h,07eh,042h,042h;
	defb	07ch,042h,07ch,042h,042h,07ch,	03ch,042h,040h,040h,042h,03ch;
	defb	078h,044h,042h,042h,044h,078h,	07eh,040h,07ch,040h,040h,07eh;
	defb	07eh,040h,07ch,040h,040h,040h,	03ch,042h,040h,04eh,042h,03ch;
	defb	042h,042h,07eh,042h,042h,042h,	03eh,008h,008h,008h,008h,03eh;
	defb	002h.002h.002h.042h.042h.03ch.	044h,048h,070h,048h,044h,042h;
	defb	040h,040h,040h,040h,040h,07eh,	042h,066h,05ah,042h,042h,042h;
	defb	042h,062h,052h,04ah,046h,042h,	03ch,042h,042h,042h,042h,03ch;
	defb	07ch,042h,042h,07ch,040h,040h,	03ch,042h,042h,052h,04ah,03ch;
	defb	07ch,042h,042h,07ch,044h,042h,	03ch,040h,03ch,002h,042h,03ch;
	defb	Ofeh,010h,010h,010h,010h,010h,	042h,042h,042h,042h,042h,03ch;
	defb	042h,042h,042h,042h,024h,018h,	042h,042h,042h,042h,05ah,024h;
	defb	042h,024h,018h,018h,024h,042h,	082h,044h,028h,010h,010h,010h;
	defb	07eh,004h,008h,010h,020h,07eh,	00eh,008h,008h,008h,008h,00eh;
	defb	000h,040h,020h,010h,008h,004h,	070h,010h,010h,010h,010h;
	defb	010h,038h,054h,010h,010h,010h,	000h,000h,000h,000h,000h;
	defb	01ch,022h,078h,020h,020h,07eh,	000h,038h,004h,03ch,044h,03ch;
	defb	020h,020h,03ch,022h,022h,03ch,	000h,01ch,020h,020h,020h,01ch;
	defb	004h.004h.03ch.044h.044h.03ch.	000h.038h.044h.078h.040h.03ch:
	defb	00ch,010h,018h,010h,010h,010h,	000h,03ch,044h,044h,03ch,004h;
	defb	040h,040h,078h,044h,044h,044h,	010h,000h,030h,010h,010h,038h;
	defb	004h,000h,004h,004h,004h,024h,	020h,028h,030h,030h,028h,024h;
	defb	010h,010h,010h,010h,010h,00ch,	000h,068h,054h,054h,054h,054h;
	defb	000h,078h,044h,044h,044h,044h,	000h,038h,044h,044h,044h,038h;
	defb	000h,078h,044h,044h,078h,040h,	000h,03ch,044h,044h,03ch,004h;
	defb	000h,01ch,020h,020h,020h,020h.	000h,038h,040h,038h,004h,078h;
	defb	010h,038h,010h,010h,010h,00ch.	000h.044h.044h.044h.044h.038h;
	defb	000h,044h,044h,028h,028h,010h.	000h,044h,054h,054h,054h,028h;
	defb	000h,044h,028h,010h,028h.044h.	000h,044h,044h,044h,03ch,004h;
	defb	000h,07ch,008h,010h,020h,07ch.	00eh,008h,030h,008h,008h,00eh;
	defb	008h,008h,008h,008h,008h,008h,008h,	070h,010h,00ch,010h,010h,070h;
	defb	014h,028h,000h,000h,000h,000h.	042h,099h,0a1h,0a1h,099h,042h;
			, , .
	end		

Code 1. Turbo Spectrum Boot Code

# 4 CoBra Logo

The CoBra logo appearing on posters and documentation was designed by architect Alexandru Antal. The CoBra logo in the boot code is generated in the center third of the screen; see Figure 38, where every pixel is shown. The thin lines are Spectrum 8x8 character demarcation lines; they do not appear on the screen.



Figure 38: CoBra Logo

To reduce code and data size, the CoBra logo is compressed. The total size of code and data for logo generation and rotation is 820 bytes. The width of the letters and snake in the vertical sections is 8 pixels but is wider in the curved areas. There are many instances of 8 to 16 consecutive INK pixels in two consecutive bytes. The 44 possible patterns are shown in Figure 39. Code 2 is the CoBra boot code which includes the CoBra logo source code with comments describing how it works.





; CoBra logo code disassembled and commented on 5 February 2022 by sorin@cismas.org ; about 36 years after it was written (the original source code was lost). ; The CoBra logo appearing on posters and documentation was designed by architect ; Alexandru Antal. We wanted to have that logo on the CoBra start-up screen. The original Sinclair ZX Spectrum ROM had 1170 unused bytes, 0386eh - 03cffh. ; The CoBra logo generation and rotation takes 820 bytes, consisting of: 608 bytes table (address 00122h - 00381h) 129 bytes code for logo generation (address 00026h - 000afh) 34 bytes code for full screen rotation (address 000cdh - 000efh) 49 bytes code for 4 pixel rotation (address 000flh - 00122h) ; The remaining 1170 - 820 = 350 bytes were sufficient for CoBra initialization. ; After support for CP/M was added, the boot code become larger and the 1170 bytes ; were no longer sufficient. A decision was made to add a 2KB boot ROM. ; Initially, the boot ROM did not have the CoBra logo. It was added at the last ; minute because it would fit in the 2KB boot ROM. ; To reduce the size, the CoBra logo is compressed. The width of the letters ; and snake in the vertical sections is 8 pixels but is wider in the curved areas. There are many instances of 8 to 16 consecutive INK pixels in 2 consecutive bytes. ; Here are the 44 possible patterns: Olfe Olff O3ff O7ff Offf 1fff 3fff 7fff ffff ; 03fc 03fe 07fe 0ffe 1ffe 3ffe 7ffe fffe ; 07fc 07£8 Offc 1ffc 3ffc 7ffc fffc 0ff0 0ff8 1ff8 3ff8 7ff8 fff8 1fe0 1ff0 3ff0 7ff0 fff0 ; 3fc0 3fe0 7fe0 ffe0 ; 7£80 7fc0 ffc0 ; ff00 ff80 ; CoBra_tbl has 3 sections. The first (00122h - 0034dh) holds information ; about where these patterns are present, the second (0034e - 00379h) has ; final additions, and the third holds the 8 bytes for the color pattern. ; The structure of the first section is: 1 byte Number of Word patterns (N) 2 bytes Base Address (lowest) of the first instance N-1 bytes Adress Increments ; The Increments are only 8 bits. In case the delta between two consecutive ; addresses is larger than 255, an intermediate write is done to a location that ; will be later overwritten. The patterns are ordered as in the above table, ; vertical first, then horizontal, as the "Word xxxx" table labels below show ; There are 3 nested loops, the outer loop goes through the columns, the middle ; loop through the rows, and the inner loop through the pattern instances. ; The second section is a list of byte patterns that could not be generated with ; the 44 16-bit patterns. There are 11 of them, the first 5 are in the 6KB screen area and remaining 6 are color attributes (blue crown, yellow eye, ; red tongue, leading edge of cyan C). The structure of the second section is: 1 bvte Number of consecutive Byte patterns 2 bytes Base Address (lowest) of the first instance 1 byte Byte pattern ; CoBra logo generation goes through 4 stages: 1. Fill color attributes in the middle 3rd of the screen: first 12 colums : with magenta INK (snake) and the last 20 with cyan INK (COBRA). 2. Use section 1 of CoBra_tbl to unpack the 44 16-bit patterns. 3. Use section 2 of CoBra tbl to unpack the finishing bytes. 4. Use section 3 of CoBra tbl to write the color pattern. ; CoBra logo rotation is not synchronized with the frame interrupt, which causes ; tearing. This was by design, not a mistake. Rotation starts from the bottom ; line and propagates up. Tearing will give the sensation of undulating motion. ; CoBra rotation is done in 3 steps and is repeated 32 times to bring it back in ; the same position: 1. Rotate left CoBra logo 4 pixels. : 2. Rotate left color attributes. ; 3. Rotate left CoBra logo 4 pixels. ; 00000h org start: ; initialize CoBra ;0000 3e 80 ;| R[7]=1 ;0002 ed 4f ;| ld a,080h ld r,a ld h1,0069ch ;0004 21 9c 06; | (0f000h)=0069ch 22 00 f0;| ld (0f000h),hl ;0007 ld sp,0ffffh ;000a 31 ff ff; initialize SP=ffff ld h,0c0h ;000d 26 c0 ;| 0c000h is video base address ; (0c000h)=0 ld 1,000h ;000f 2e 00 ;0011 36 00 ld (hl),000h ld d,h ;| 0c001h ;0013 54 ld e,001h ;0014 le 01 ; | ld bc,01affh ;0016 01 ff 1a; 01b00h is video memory size

; clear video memory ldir ld a,092h out (Odfh),a ;001f 3e 40 ;| out(040feh)=040h ;0021 d3 fe ;| ld a,040h out (Ofeh),a ld bc,078feh ;0023 01 fe 78; NOT NEEDED ; The initial boot did not have the CoBra logo and the keyboard test ; that starts at 000adh was starting here. This is a leftover instruction ; after the CoBra logo was added to the CoBra boot code at the last minute ; generate CoBra logo ;0028 2e uu ;0028 2e uu ;002a 06 08 ;0026 26 d9 ;| 0d900h is start Address ;0028 2e 00 ;| of middle 3rd of screen attributes ;002a 06 08 ; 8 rows ld h,0d9h ld 1,000h ld b,008h 1002ch• push bc ; ;002c c5 ; save BC <--- <--- <---, ld bc,00c05h ;002d 01 05 0c; | fill first 12 bytes with 5 | 10030h: ;| cyan INK on black PAPER ld (hl),c ;0030 71 ; | ;0031 23 inc hl inc hl ;0031 23 ;| djnz 10030h ;0032 10 fc ;| ld bc,01403h ;0034 01 03 14;| fill next 20 bytes with 3 ; | 10037h: ; | magenta INK on black PAPER ld (hl),c ;0037 71 ld (hl),c ;0037 71 ;| inc hl ;0038 23 ;| djnz 10037h ;0039 10 fc ;| : | ; restore BC ; loop 8 times --> --> --> ;003b c1 pop bc djnz 1002ch ;003c 10 ee exx ;003e d9 ; 1d hl,CoBra_tbl ;003f 21 22 01; load CoBra_tbl base address to H'L' ; ; | load HL with first Base Address ;0042 d9 ;0043 26 cb exx ld h,0cbh ld 1,0b9h ;0045 2e b9 ;| ld de,001feh ;0047 11 fe 01; load DE with Word 001feh ld 1,0b9h ld a,004h ;004a 3e 04 ; load A with Number of Words ;004c 06 09 ; 9 outer loops ld b,009h ; 9 outer loops
;
; save BC <-- <-- <-- <-- <-- <--, ,
; Number of Words |
;
; write upper byte <-- <--, <--, |
;| write lower byte ^- ^- ^-, -, |
;| write lower byte ^- ^- ^ ^ ^ ^
; load A with Increment | | |
; increment H'L' pointer ^ ^ ^ ^ ^
; save byte read to C ^ ^ ^ ^ ^
; add hl, a _ _ _ _ | | |
;</pre> 1004eh: ;004e c5 ;004f 47 push bc ld b,a 10050h: ;0050 72 ;0051 23 ld (hl),d inc hl ;0052 73 ;0053 d9 ld (hl),e exx ;0054 7e ;0055 23 ld a, (hl) inc hl ;0056 d9 ;0057 4f exx ld c,a ;0058 85 add a,l ;0059 6f ld l,a : | jr nc,1005dh ;005a 30 01 ;| inc h ;005c 24 ;| 1 inc h ; | 1005dh: ; 1 djnz 10050h ;005d 10 f1 ; close inner loop --> -->' ;005f 41 ;0060 d9 ; byte read from H'L' pointer ld b,c ; exx ;| load DE with next Base Address | ;0061 5e ;0062 23 ld e,(hl) , DE ;| ;| ; save DE ; inc hl ;0063 56 ;0064 23 ld d,(hl) inc hl ;0065 d5 ;0066 d9 push de 1 1 exx ;0006 d9 ;; ;0067 e1 ; HL contains next Base Address | ;0068 cb 23 ;| shift left arithmetic DE ^ ;006a cb 12 ;| ;006c 30 e2 ; close middle loop -> --> --> ' ;006e cb la ;| unshift DE ;0070 cb lb ;| ;0072 16 ff ; NOT NEEDED (redundant) pop hl 1 1 sla e rl d jr nc,10050h rr d rr e ld d.Offh 10074h• ;| determine next Word ;| with one extra 1 bit ;0074 cb 22 sla d ;0076 cb 13 rl e jr c,10074h ;0078 38 fa ;| right aligned ;007a 7a ld a,d : | ;007b 2f cpl ; | ld d,a ;007c 57 ; | ld e,Offh ;007d le ff ;| ld a,c ;007f 79 ; Number of Words/Bytes ;0080 c1 ;0081 10 cb ;0083 5d ;0084 54 pop bc ; restore BC ; close outer loop --> --> --> --> --> djnz 1004eh ld e,l ;| save Address to DE ld d,h ; | ;0085 d9 ;0086 e5 exx ; | copy H'L' pointer to HL push hl ; |

exx	;0087 d9 ;	
pop hl ld b 00bb	;0088 e1 ;	11 finishing loops (should have been 12)
1008bh:	,0000 0000,	II IIIIShing loops (should have been 12)
push bc	;008b c5 ;	save BC < < < <,
ld b,a	;008c 47 ;	Number of Bytes
inc hl	;008e 23	I TOUG A WICH BYCE
1008fh:	,	
ld (de),a	;008f 12 ;	/ write Byte B times ^
inc de	;0090 13 ;	
ld a. (hl)	;0091 10 10 ;	l load A with Number of Bytes
inc hl	;0094 23 ;	
ld e,(hl)	;0095 5e ;	load DE with next Address
inc hl	;0096 23 ;	
inc hl	;0097 58 ;	
pop bc	;0099 cl ;	restore BC
djnz 1008bh	;009a 10 ef ;	close finishing loop ->> -'
ld bc,00008h ld de 0da8ch	1 ;009c 01 08 00; 1 :009f 11 8c da:	add color pattern
ld hl,Colors	;00a2 21 7a 03;	
ldir	;00a5 ed b0 ;	i i i i i i i i i i i i i i i i i i i
; screen cycle 100a7h:		
ld d,007h	;00a7 16 07 ;	7 outer loops < < < < < ,
ld bc,00000h	ı ;00a9 01 00 00;	256 middle (C) and 256 inner (B) loops
100ach:	;	which introduces a delay of 19.4 seconds   cycles
push bc • keyboard test	;00ac c5 ;	save BC < < < < <,-, ^ 11
ld bc,078feh	, ;00ad 01 fe 78;	
in a,(c)	;00b0 ed 78 ;	A=in(078feh), rows KAf,KAa,KA9,KA8       12
nop	;00b2 00 ;	old instruction(s) nullified ^ ^ ^ ^ 4
nop in 00705b	;00b3 00 ;	at the last minute       4
KB return:	,0001 00 00 07,	which returns here
- rra	;00b7 lf ;	rotate right all, CY=or(col 2) ^ ^ ^ ^ 4
jp nc,003d8h	i ;00b8 d2 d8 03;	jump if "M,"E","D","X" pressed       10
in nc.006dfh	; 11 dauu; ; 200bc d2 df 06;	iump if "N."R"."F"."C" pressed
rra	;00bf 1f ;	rotate right all, CY=or(col 4) ^ ^ ^ 4
jp nc,00719h	,00c0 d2 19 07;	jump if "B,"T","G","V" pressed         10
rra	;00c3 1f ;	rotate right all, CY=or(col 5) ^ ^ ^ 4
pop bc dinz 100ach	;00c4 c1 ;	close inner loop>>>' ^ ^ 13.8.148*256-5=37883
dec c	;00c7 0d ;	
jr nz,100ach	1 ;00c8 20 e2 ;	close middle loop ->>>> ' ^ ^ 12,7: 37899*256-5=9702139
dec d	;00ca 15 ;	$ $ 4
; rotate left CoBra	logo, full screen :	Close outer loop>>>>> 12,/: 9/02155^/-5=6/915080
ld b,020h	;00cd 06 20 ;	32 character columns ^
100cfh:	;	
push bc	;00ci c5 ;	save BC < < < < <, ^
; rotate left CoBra	logo attributes	
ld h,0d9h	;00d3 26 d9 ;	Od901h is start Address + 1
ld 1,001h	;00d5 2e 01 ;	of middle 3rd of screen attributes ^ ^
100d9b.	;0007 06 08 ;	
push bc	;00d9 c5 ;	save BC < < < <,
ld bc,0001fh	n ;00da 01 1f 00;	32 bytes per attribute row ^ ^ ^
ld d,h	;00dd 54 ;	load DE with HL Address - 1
dec e	;00de 5d ;	
ld a,(de)	;00e0 la ;	save first byte to A ^ ^ ^
ldir	;00e1 ed b0 ;	rotate left attribute row
ld (de),a	;00e3 12 ;	write last byte with A ^ ^ ^
inc e	;00e5 1c ;	next E
pop bc	;00e6 c1 ;	restore BC
djnz 100d9h	;00e7 10 f0 ;	close attribute row loop -> -' ^ ^
call Rotate	; uuey cd II 00; ; 00ec c1	restore BC ^ ^ ^
djnz 100cfh	;00ed 10 e0 ;	close character rotate left loop -> -'
jr 100a7h	;00ef 18 b6 ;	close screen cycle>>>>> '
Potato		
ld b,004h	;00f1 06 04 :	rotate left CoBra logo 4 pixels
100f3h:		
push bc	;00f3 c5 ;	save BC < < < < <,
Id h,Ocfh	;0014 26 cf ;	UCIIIN 15 end Address
1d = 1,01111	,0010 2011 ;	rotate left 8 character rows

100fah:	;	
push bc	;00fa c5 ;	save BC < < < < < < , ^
100fdb.	3n ;001b 06 08 ;	8 screen lines per character row
push bc	;00fd c5 ;	save BC < < < <
ld d,h	;00fe 54 ;	save Address to DE
ld e,l	;00ff 5d ;	
ld b,020	)h ;0100 06 20 ;	32 bytes per screen line
sci	;0102 37 ;	CY=1
rl (bl)	•0103 ch 16 •1	rotate left
dec hl	;0105 2b ;	
djnz 101	103h ;0106 10 fb ;	
jr c,101	LOdh ;0108 38 03 ;	jump if 1 was rotated out ^ ^ ^
Id a, (de	e) ;010a 1a ;	otherwise
ld (de).	,0100 3d ,1	
1010dh:	;	
pop bc	;010d c1 ;	restore BC
scf	;010e 37 ;	CY=0
cci ld do 00	;UIUI 3I ;	load WI with and Address A
sbc hl.d	de :0113 ed 52 :1	of previous screen line
djnz 100	)fdh ;0115 10 e6 ;	close screen line loop>' ^ ^
ld bc,00	)7e0h ;0117 01 e0 07;	load HL with end Address
add hl,b	oc ;011a 09 ;	of previous character row ^ ^
pop bc	;011b cl ;	restore BC
ען גענע מטמ אר	;011e c1 :	restore BC
djnz 100	)f3h ;011f 10 d2 ;	close rotate left loop>> -'
ret	;0121 c9 ;	-
CoBra_tbl:	writes Words with 8 consecu	utive 1's (8 middle loops)
Word 01fe:	viites words with a consect	active i S (8 middle 100pS)
; defb	004h (initial value in 2	A) ; Number of Words
; defw	Ocbb9h (initial value in )	HL) ; Base Address
defb	Offh,0e0h,0ffh	
word_USIC:	01fb	· Number of Words
defw	0c8b1h	; Base Address
defb	045h,0b9h,022h,002h,01fh,	0a2h,016h,022h; Increments
defb	002h,01fh,0a2h,016h,025h,	015h,009h,075h
defb	043h,025h,0bch,002h,019h,	025h,0bch,002h
deib Word 07f8:	019h,00/h,01dh,0d9h,00/h,	Uldh
defb	00ch	; Number of Words
defw	0c89ah	; Base Address
defb	007h,0a5h,090h,0ffh,088h,	Offh,Oe5h,Offh; Increments
defb Mauri Offo	0ffh,031h,007h	
word_uriu: defb	00cb	: Number of Words
defw	0c882h	; Base Address
defb	0ffh,0ffh,0ffh,06dh,07fh,	009h,007h,0f7h; Increments
defb	007h,0dfh,0ffh	
word_lieU:	0.0.95	· Number of Words
defw	0c8cch	; Base Address
defb	07bh,092h,0ffh,0ffh,0ebh,	Offh,Offh,Oc4h; Increments
Word_3fc0:	01.01	
defb	UIUh Oceath	; Number of Words
defb	Ofch 002h Ofch 002h Ofch 0	; Base Address 002b Ofch 002b: Increments
defb	0fch,002h,0fch,002h,00bh.	0f3h,00bh
Word_7f80:		
defb	006h	; Number of Words
defw	UC887h	; Base Address
ueip Word ff00.	ocon, utin, utin, u/2n, utth	; Increments
defb	00bh	; Number of Words
defw	0c846h	; Base Address
defb	074h,06eh,03dh,052h,08eh,	09fh,0feh,0ddh; Increments
deib	011h,082h	
; outer loop 1 w Word 01ff:	vrites Words with 9 consect	utive l's (8 middle loops)
defb	011h	; Number of Words
defw	0c88ch	; Base Address
defb	062h,055h,020h,0e1h,070h,	08eh,0dah,0a3h; Increments
defb	07ah,05fh,09fh,05fh,0cch,	02ah,028h,008h
wora_Usie:	00bb	: Number of Words
defw	0c862h	; Base Address
defb	0e5h,0ffh,0ffh,059h,0f7h,	007h,0a5h,070h; Increments
0.010		

defb defw		
defw	013h ;	Number of Words
	Oc8dlh ;	Base Address
defb	002h,002h,001h,088h,037h,007h,02eh,090h;	Increments
defb	03fh,0a5h,08bh,0bfh,002h,0f9h,0ffh,0ffh;	Increments
defb	002h,002h	
Word_0118:		
deib	008h ;	Number of Words
defw	Ocadlh ;	Base Address
defb	076h,090h,0edh,09ah,02eh,0e8h,007h ;	Increments
Word_1ff0:		
defb	009h ;	Number of Words
defw	Oc9cch ;	Base Address
defb	07bh,086h,078h,092h,0ebh,09fh,027h,0fch;	Increments
Word_3fe0:		
defb	00bh ;	Number of Words
defw	Oc8ach ;	Base Address
defb	022h,00bh,0f3h,0fch,0ffh,0fah,0ffh,0c7h;	Increments
defb	Offh,Olch	
Word 7fc0:		
_ defb	003h ;	Number of Words
defw	0cdbbh	Base Address
defb	0b4h.0f6h ;	Increments
Word ff80.		
dafh	010b	Number of Words
dofr	0c82ab ;	Rase Address
det W	, Dach 0546 0036 0fdb 0726 0386 0f56 0dab.	Increments
detD	0755 031,031,0001,0101,0721,0301,0101,0001; 0755 0325 0325 0325 0325	1101010100
aero	0,511,03011,00211,01011,03211,08011,0201	
· outer loop	2 writes Words with 10 consecutive 11s /7 -	iddle loops)
, outer toop	- MITCES MOLOS MICH IN CONSECUTIVE I.S (/ W	таате тооћа)
dofh	00cb	Number of Words
detD	0c866b	Race Addross
derW	029b 0fab 0bbb 0ffb 0dab 0fbb 0-45 0000	Dase Auuress
aeib	UZON, UICH, UDDH, UIIH, UGEH, UIDH, UE4H, UDAH;	Increments
deib	uuon,UIAN,UU/N	
word_U/te:	0.011	
defb	UUIh ;	Number of Words
defw	Uci46h ;	Base Address
Word_Offc:		
defb	001h ;	Number of Words
defw	0ce46h ;	Base Address
Word_1ff8:		
defb	005h ;	Number of Words
defw	Ocacch ;	Base Address
defb	0ffh,0fah,07eh,045h	
Word 3ff0:	· · · · ·	
_ defb	001h :	Number of Words
defw	0cc46h ;	Base Address
Word 7fel.		
defh	001b	Number of Words
de fur	0.ch46h ;	Rase Address
Word ffal.	;	Dage Muuless
WOLU_ELCU:	0.0 ch	Number of Weed
deib	, 0, 001)	Number of Words
defw	UC891h ;	Base Address
defb	Ub6h, 0fdh, 0e1h, 09bh, 07eh, 085h, 0fdh, 0ffh;	Increments
defb	U61h,079h,02dh	
; outer loop	3 writes Words with 11 consecutive 1's (6 m	iddle loops)
; outer loop Word_07ff:	3 writes Words with 11 consecutive 1's (6 m	iddle loops)
; outer loop Word_07ff: defb	3 writes Words with 11 consecutive 1's (6 m 00ah ;	iddle loops) Number of Words
; outer loop Word_07ff: defb defw	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ;	iddle loops) Number of Words Base Address
; outer loop Word_07ff: defb defw defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h;	iddle loops) Number of Words Base Address Increments
; outer loop Word_07ff: defb defw defb defb	<pre>3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh</pre>	iddle loops) Number of Words Base Address Increments
; outer loop Word_07ff: defb defw defb defb Word_0ffe:	<pre>3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh</pre>	iddle loops) Number of Words Base Address Increments
; outer loop Word_07ff: defb defw defb Word_0ffe: defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ;	iddle loops) Number of Words Base Address Increments Number of Words
; outer loop Word_07ff: defb defw defb defb Word_0ffe: defb defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ;	iddle loops) Number of Words Base Address Increments Number of Words Base Address
; outer loop Word_07ff: defb defb defb Word_0ffe: defb defb defb defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh ; 002h ; 0cbcch ; 0bfh ;	iddle loops) Number of Words Base Address Increments Number of Words Base Address Increments
; outer loop Word_07ff: defb defb defb Word_0ffe: defb defw defb Word 1ffc:	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ;	Middle loops) Number of Words Base Address Increments Number of Words Base Address Increments
; outer loop Word_07ff: defb defw defb Word_0ffe: defb defw defb Word_1ffc: defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ;	iddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words
; outer loop Word_07ff: defw defb Word_0ffe: defb defb Word_1ffc: defb defw defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh	Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address
; outer loop Word_07ff: defb defw defb Word_0ffe: defb defb Word_1ffc: defb defb defb defb defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0caedh ;	iddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments
; outer loop Word_07ff: defb defw defb Word_0ffe: defb Word_1ffc: defb defw defb Word_1ffc: defb defb defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0e1h,0bfh,0ddh ;	iddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments
; outer loop Word_07ff: defb defw defb Word_0ffe: defb Word_1ffc: defb defw defb Word_1ffc: defb defw defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0e1h,0bfh,0ddh ; 003b	Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments
; outer loop Word_07ff: defb defw defb Word_0ffe: defb defw defb Word_1ffc: defb defw defb Word_3ff8: defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0c1h,0bfh,0ddh ; 003h ; 0cbd1b ;	hiddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words
; outer loop Word_07ff: defb defw defb Word_0ffe: defb Word_0ffe: defb Word_1ffc: defb defw defb Word_3ff8: defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0e1h,0bfh,0ddh ; 003h ; 0cbd1h ; 005h ;	iddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address
; outer loop Word_07ff: defb defw defb Word_0ffe: defb Word_1ffc: defb Word_1ffc: defb Word_3ff8: defb defw defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0e1h,0bfh,0ddh ; 003h ; 0cbd1h ; 095h,029h ;	diddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments
; outer loop Word_07ff: defb defw defb Word_0ffe: defb Word_1ffc: defb defw defb Word_3ff8: defb defw defb Word_3ff8: defb defw defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0e1h,0bfh,0ddh ; 003h ; 0cbd1h ; 095h,029h ;	hiddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments
; outer loop Word_07ff: defb defb Word_0ffe: defb Word_1ffc: defb Word_1ffc: defb Word_3ff8: defb defw defb Word_3ff8: defb defw defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0c1h,0bfh,0ddh ; 003h ; 0cbd1h ; 005h,029h ; 001h ;	diddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments
; outer loop Word_07ff: defb defw defb Word_0ffe: defb Word_1ffc: defb Word_1ffc: defb Word_3ff8: defb Word_3ff8: defb Word_7ff0: defb defw	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0e1h,0bfh,0ddh ; 003h ; 0cbd1h ; 005h,029h ; 001h ; 0c8e6h ;	iddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address
; outer loop Word_07ff: defb defw defb Word_0ffe: defb defw defb Word_1ffc: defb defw defb Word_3ff8: defb defw defb Word_7ff0: defb defw defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0e1h,0bfh,0ddh ; 003h ; 0cbd1h ; 005h ; 001h ; 0c8e6h ;	Aiddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments
; outer loop Word_07ff: defb defb defb Word_0ffe: defb defb Word_1ffc: defb defb Word_3ff8: defb defb defb defb defb defb defb defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0e1h,0bfh,0ddh ; 003h ; 0cbd1h ; 095h,029h ; 001h ; 00dh ; 00dh ;	hiddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Number of Words
; outer loop Word_07ff: defb defw defb Word_0ffe: defb Word_1ffc: defb Word_1ffc: defb Word_3ff8: defb Word_3ff8: defb Word_7ff0: defb defw Word_ffe0: defb defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0e1h,0bfh,0ddh ; 003h ; 0cbd1h ; 005h ; 001h ; 0c8e6h ; 00dh ; 0c8e3h ;	diddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Number of Words Base Address
; outer loop Word_07ff: defb defw defb Word_0ffe: defb Word_1ffc: defb Word_1ffc: defb Word_3ff8: defb Word_7ff0: defb Word_7ff0: defb Word_ffe0: defb defw Word_ffe0: defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0e1h,0bfh,0ddh ; 003h ; 0cbd1h ; 005h ; 001h ; 0c8c3h ; 0cdh,0f2h,0f3h,05ah,0e3h.0ffh,0a1h.040h;	hiddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Number of Words Base Address Number of Words Base Address Number of Words Base Address Increments
; outer loop Word_07ff: defb defw defb Nord_0ffe: defb Nord_1ffc: defb Nord_1ffc: defb Nord_3ff8: defb Nord_3ff8: defb Nord_7ff0: defb defb Nord_7ff0: defb defb defb defb Nord_fe0: defb defb defb	3 writes Words with 11 consecutive 1's (6 m 00ah ; 0c924h ; 06ah,0fch,057h,0ech,0f5h,0fbh,008h,056h; 0abh 002h ; 0cbcch ; 0bfh ; 004h ; 0caedh ; 0e1h,0bfh,0ddh ; 003h ; 0cbd1h ; 005h ; 001h ; 0c8e6h ; 00dh ; 0c8e3h ; 0cdh,062h,0f3h,05ah,0e3h,0ffh,0alh,040h; 01e,04ah,002h.059h	hiddle loops) Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments Number of Words Base Address Increments

word_UIII:		
defb defw defb defb	00dh Oca8fh Ofch,002h,097h,09bh,008h,002h,009h,0f5h 009h,02ah,062h,0bbh	; Number of Words ; Base Address ; Increments
Word_lffe: defb defw	001h 0c8e6h	; Number of Words ; Base Address
Word_3ffc: defb defw defb	004h Ocaf0h 0f8h.0ddh.0a8h	; Number of Words ; Base Address ; Increments
Word_7ff8: defb defw	002h 0c9c3h 075h	; Number of Words ; Base Address
Word_fff0: defb defw defb	071n 014h 0c894h 002h,05ch,0fbh,0a0h,0ffh,022h,002h,052h	; Number of Words ; Base Address ; Increments
defb defb	0a9h,002h,019h,009h,04dh,0a7h,009h,0edh 0aah,002h,05ch	
; outer loop 5 Word_1fff:	writes Words with 13 consecutive 1's (4	middle loops)
defb defw defb defb	00ch 0c843h 0b5h,0eah,03fh,0e3h,0bah,040h,0c2h,0ffh 0ffh,011h,0ffh	; Number of Words ; Base Address ; Increments
Word_3ffe: defb	007h	; Number of Words
defw defb Word 7ffg:	0c943h 0e4h,09ah,084h,0aah,07fh,002h	; Base Address ; Increments
defb defw	007h 0c9edh	; Number of Words ; Base Address
defb Word_fff8:	0fah,07eh,0bfh,0ffh,0ffh,045h	; Increments
defb defw defb defb defb	017h 0c826h 0d4h,098h,002h,01ch,002h,0dch,002h,01ch 002h,052h,0fdh,020h,0fdh,08ch,002h,01ch 0dfh,002h,01ch,006h,0edh,011h	; Number of Words ; Base Address ; Increments
; outer loop 6	writes Words with 14 consecutive 1's (3	middle loops)
word_3III: defb defw	02ah	; Number of Words
defb defb defb defb defb defb defb	06ah,002h,01ch,002h,03ch,09fh,002h,01ch 002h,03ch,005h,099h,002h,01ch,002h,03ch 005h,00ah,08eh,002h,01ch,002h,042h,0b9h 002h,01ch,09fh,002h,03ch,002h,01ch,09fh 002h,03ch,002h,01ch,09fh,002h,03ch,002h 01ch	; Increments
defb defw	001h Oc8e6h	; Number of Words ; Base Address
defb defb defb defb defb defb	017h 0c88dh 026h,002h,031h,003h,038h,066h,06dh,091h 06dh,02dh,063h,006h,002h,063h,0d1h,006h 0f8h,0ffh,09fh,046h,002h,015h	; Number of Words ; Base Address ; Increments
; outer loop 7 Word 7fff:	' writes Words with 15 consecutive 1's (2	middle loops)
defb defw defb	006h 0c825h 0beh,043h,0ffh,0fbh,0c0h	; Number of Words ; Base Address ; Increments
Word_fffe: defb defw defb	008h Oc9e9h 03ch,002h,03dh,0e1h,0ddh,09dh,083h	; Number of Words ; Base Address ; Increments
; outer loop 8 Word_ffff:	8 writes Words with 16 consecutive 1's (1	middle loops)
- defb defb defb defb defb defb	029h 0c8e6h 001h,05fh,09dh,001h,007h,037h,01fh,09dh 001h,01dh,001h,01dh,001h,01fh,09eh,001h 01ch,001h,01ch,001h,09dh,001h,05dh,001h 020h,07ch,001h,03eh,001h,01ch,001h,020h 027h,054h,001h,05dh,001h,020h,07ch,001h	; Number of Words ; Base Address ; Increments
Bvtes:		

	1 61	0.011		C					
	deib	001h ;	Numbei	c of B	ytes				
	defw	0c845h;	Addres	SS					
	defb	0c3h :	Bvte						
	defb	001b .	Number	of B	VTAR				
	detb	0-0075.	Nulliber	- OI D	yces				
	derw	0000711;	Addres	55					
	deib	003h ;	Byte						
	defb	001h ;	Numbeı	c of B	ytes				
	defw	0c987h;	Addres	ss					
	defh	001h •	Bute						
	dofb	001h ,	Number	of D					
	deib	00111 ;	Number	L OI D	ytes				
	deiw	Uce68h;	Addres	3 S					
	defb	0e0h ;	Byte						
	defb	001h ;	Numbei	c of B	ytes				
	defw	0cf67h;	Addres	ss					
	defb	007h :	Bvte						
	defb	00ab .	Number	of B	VTAR				
	detb	0.10021.	7 alalasa a	- OI D	yces				
	deiw	0d903h;	Addres	ss 					
	deib	001h ;	Byte:	blue	INK	on	black	PAPER	
	defb	002h ;	Numbei	c of B	ytes				
	defw	0d927h;	Addres	SS					
	defb	035h ;	Byte:	cyan	INK	on	yellow	PAPER	
	defb	001h ;	Numbei	of B	vtes		-		
	defw	0d947h.	Addres	29	1				
	dofb	015b	Puto:	avan	TNK	<u></u>	rod		
	derb derb	0045	Dyce.	cyan D		011	rea	TATEN	
	de LD	0.10.101	IN UIIIDE1	OT B	yres				
	deiw	uay48h;	Aadres	·S .	_				
	defb	002h ;	Byte:	red	INK	on	black	PAPER	
	defb	001h ;	Number	c of B	ytes				
	defw	0d98bh;	Addres	ss					
	defb	003h :	Bvte:	magen	ta INK	on	black	PAPER	
	defb	001b ·	Number	of R	vtes				
	defu	Odushh,	Nddroo	. OI D	yces				
	deiw	0034011,	Dutes				1-11-		
	deib	00311 ;	Byte:	magen	ta INK	on	DIACK	PAPER	
; missi	ng loop								
;	defb	001h ;	Numbeı	c of B	ytes				
;	defw	0d9cbh;	Addres	ss					
;	defb	003h ;	Byte:	magen	ta INK	on	black	PAPER	
			-	2					
Colors									
001010.	dofb	0075 .		white	TNK	<u></u>	black		
	derb	00711 ,		whitte		011	black	DADED	
	derb	ouen ;		Yeito	W INK	on	biue	PAPER	
	deib	015h ;		cyan	INK	on	red	PAPER	
	dofh	01ch •			TNIZ	on	magenta	PAPER	
	GEID	01011 ,		green	TNL	0			
	defb	023h ;		magen	ta INK	on	green	PAPER	
	defb defb	023h ; 02ah ;		magen red	ta INK INK	on on	green cvan	PAPER PAPER	
	defb defb defb	023h ; 02ah ; 031h ;		magen red blue	ta INK INK INK	on on	green cyan vellow	PAPER PAPER PAPER	
	defb defb defb defb	023h ; 02ah ; 031h ; 038h ;		magen red blue black	ta INK INK INK INK	on on on	green cyan yellow white	PAPER PAPER PAPER PAPER	
	defb defb defb defb defb	023h ; 02ah ; 031h ; 038h ;		magen red blue black	ta INK INK INK INK	on on on on	green cyan yellow white	PAPER PAPER PAPER PAPER	
103925.	defb defb defb defb	023h ; 02ah ; 031h ; 038h ;		magen red blue black	ta INK INK INK INK	on on on on	green cyan yellow white	PAPER PAPER PAPER PAPER	
10382h:	defb defb defb defb	023h ; 02ah ; 031h ; 038h ;	0.001	green magen red blue black	ta INK INK INK INK	on on on on	green cyan yellow white	PAPER PAPER PAPER PAPER	
10382h:	defb defb defb defb	023h ; 02ah ; 031h ; 038h ;	0001	magen red blue black	ta INK INK INK ,000h,	on on on on	green cyan yellow white	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h;	
10382h:	defb defb defb defb defb	023h ; 02ah ; 031h ; 038h ; 005h,00	0001 bh,0111	magen red blue black n,000h n,017h	ta INK INK INK ,000h, ,003h,	on on on on 0001 0091	green cyan yellow white h,001h,00 h,00fh,02	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h;	
10382h:	defb defb defb defb defb defb defb	023h ; 02ah ; 031h ; 038h ; 005h,00 018h,00	0001 bh,0111 4h,00ał	magen red blue black n,000h n,017h n,010h	,000h, ,016h,	on on on 0001 0091 0011	green cyan yellow white h,001h,00 h,00fh,00 h,004h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h;	
10382h: 103afh:	defb defb defb defb defb defb defb	023h ; 02ah ; 031h ; 038h ; 005h,00 018h,00	0001 bh,0111 4h,00a1	magen red blue black h,000h h,017h h,010h	,000h, ,016h,	on on on on 0001 0001	green cyan yellow white h,001h,00 h,00fh,00 h,004h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h;	
10382h: 103afh:	defb defb defb defb defb defb defb defb	023h ; 02ah ; 031h ; 038h ; 005h,00	0007 bh,0117 4h,00ar	magen red blue black n,000h n,017h n,010h	,000h, ,016h,	on on on on 0001 0011	green cyan yellow white h,001h,00 h,00fh,00 h,004h,00	PAPER PAPER PAPER PAPER 00h, 01ah, 006h, 080h, 001h, 007h, 00dh, 013h, 019h; 15h, 002h, 008h, 00eh, 014h, 01ah, 006h, 00ch, 012h; 07h, 00ah, 003h, 006h, 009h, 002h, 005h, 008h; 000h;	
10382h: 103afh:	defb defb defb defb defb defb defb defb	023h; 02ah; 031h; 038h; 005h,00 018h,00	0001 bh,0111 4h,00a1 9h,0531	green magen red blue black h,000h h,017h h,010h	,000h, ,003h, ,016h,	on on on 0001 0001 0001	green cyan yellow white h,001h,00 h,00fh,00 h,004h,00	PAPER PAPER PAPER PAPER PAPER 000h, 01ah, 006h, 080h, 001h, 007h, 00dh, 013h, 019h; 15h, 002h, 008h, 00eh, 014h, 01ah, 006h, 00ch, 012h; 07h, 00ah, 003h, 006h, 009h, 002h, 005h, 008h; 0000h; 20h, 043h, 04fh, 04dh, 0ddh, 021h, 000h, 000h, 011h;	
10382h: 103afh:	defb defb defb defb defb defb defb defb	023h ; 02ah ; 031h ; 038h ; 005h,00 018h,00	0001 bh,0111 4h,00ah 9h,0531 0h.03el	green magen red blue black h,000h h,017h h,010h	,000h, ,003h, ,020h,	on on on 0001 0001 0001	green cyan yellow white h,001h,00 h,00fh,00 h,004h,00	PAPER PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,03eh;	
10382h: 103afh:	defb defb defb defb defb defb defb defb	023h ; 02ah ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02	000f bh,011f 4h,00af 9h,053f 0h,03ef 7h 0adf	green magen red blue black h,000h h,017h h,010h	,020h, ,037h, ,004h	on on on 0001 0001 0001 0001	green cyan yellow white h,001h,00 h,00fh,00 h,002h,00 h,020h,00 h,020h,00	PAPER PAPER PAPER PAPER PAPER 00h, 01ah, 006h, 080h, 001h, 007h, 00dh, 013h, 019h; 15h, 002h, 008h, 00eh, 014h, 01ah, 006h, 00ch, 012h; 07h, 00ah, 003h, 006h, 009h, 002h, 005h, 008h; 000h; 20h, 043h, 04fh, 04dh, 0ddh, 021h, 000h, 000h, 011h; 04h, 0ddh, 021h, 000h, 020h, 011h, 000h, 020h, 03eh; 00h;	
10382h: 103afh:	defb defb defb defb defb defb defb defb	023h ; 02ah ; 02ah ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03	000H bh,011H 4h,00aH 9h,053H 0h,053H 7h,0cdH	dreen magen red blue black h,000h h,017h h,010h h,020h h,020h h,0ch	,000h, ,003h, ,016h, ,003h, ,016h,	on on on 0001 0001 0001 0001 0001	green cyan yellow white h,001h,00 h,00fh,00 h,004h,00 h,020h,00 h,0c2h,00 h,000h,00	PAPER PAPER PAPER PAPER PAPER 00h, 01ah, 006h, 080h, 001h, 007h, 00dh, 013h, 019h; 15h, 002h, 008h, 00eh, 014h, 01ah, 006h, 00ch, 012h; 07h, 00ah, 003h, 006h, 009h, 002h, 005h, 008h; 000h; 20h, 043h, 04fh, 04dh, 0ddh, 021h, 000h, 000h, 011h; 04h, 0ddh, 021h, 000h, 020h, 011h, 000h, 020h, 03eh; 00h;	
10382h: 103afh:	defb defb defb defb defb defb defb defb	023h ; 023h ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03	000H bh,011H 4h,00aH 9h,053H 0h,03eH 7h,0cdH	green magen red blue black h,000h h,017h h,010h h,020h h,0c2h	,0000h, ,003h, ,016h, ,020h, ,037h,	on on on 00001 00011 00201 00201 00201 00201 00201	green cyan yellow white h,001h,00 h,00fh,00 h,004h,00 h,020h,00 h,0c2h,00 h,000h,00	PAPER PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h:	defb defb defb defb defb defb defb defb	023h ; 023h ; 02ah ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03	0001 bh,0111 4h,00ah 9h,0531 0h,03eh 7h,0cdh	green magen red blue black h,000h h,017h h,010h h,020h h,0feh h,0c2h	1000 1000 1000 1000 1000 1000 1000 100	on on on 0000 0000 0000 0000 0000 0000	green cyan yellow white h,001h,00 h,004h,00 h,020h,00 h,0c2h,00 h,0c2h,00 h,000h,00	PAPER PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,002h,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h:	defb defb defb defb defb defb defb defb	023h ; 02ah ; 02ah ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03	000f bh,011f 4h,00af 9h,053f 0h,03ef 7h,0cdf ;03d8	dreen magen red blue black h,000h h,017h h,010h h,020h h,020h h,0c2h cd f	100 100 100 100 100 100 100 100 100 100	on on on 0001 0001 0001 0001 0001 0001 0	green cyan yellow white h,001h,00 h,00fh,01 h,004h,01 h,020h,02 h,0c2h,01 h,000h,01	PAPER PAPER PAPER PAPER PAPER 00h, 01ah, 006h, 080h, 001h, 007h, 00dh, 013h, 019h; 15h, 002h, 008h, 00eh, 014h, 01ah, 006h, 00ch, 012h; 07h, 00ah, 003h, 00eh, 009h, 002h, 005h, 008h; 000h; 20h, 043h, 04fh, 04dh, 0ddh, 021h, 000h, 000h, 011h; 04h, 0ddh, 021h, 000h, 020h, 011h, 000h, 020h, 03eh; 00h;	
10382h: 103afh: 103d8h:	defb defb defb defb defb defb defb defb	023h ; 02ah ; 02ah ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h	0001 bh,0111 4h,00ah 9h,0531 0h,03eb 7h,0cdl ;03d8 ;03db	dreen magen red blue black h,000h h,017h h,010h h,020h h,020h h,0c2h cd f 01 0	100 100 100 100 100 100 100 100 100 100	on on on 00001 00011 00201 00201 00201 00201 00201 00201 ; ;	green cyan yellow white h,001h,00 h,00fh,00 h,004h,00 h,020h,00 h,022h,00 h,000h,00	PAPER PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h:	defb defb defb defb defb defb defb defb	023h ; 023h ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h	0001 bh,0111 4h,00ah 9h,0531 0h,03eh 7h,0cdh ;03d8 ;03db ;03de	green magen red blue black h,000h h,017h h,010h h,020h h,0c2h cd f 01 0 21 8	,000h, ,003h, ,016h, ,020h, ,037h, ,004h, e 05 9 00 2 03	on on on 00001 00011 00201 00201 00201 00201 00201 00201 00201 ; ; ;	green cyan yellow white n,001h,00 n,001h,00 n,004h,00 n,020h,00 n,020h,00 n,000h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h:	defb defb defb defb defb defb defb defb	023h ; 022h ; 02ah ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch	000f bh,011f 4h,00af 9h,053f 0h,03ef 7h,0cdf ;03d8 ;03db ;03de ;03de	green magen red blue black h,000h h,017h h,010h h,020h h,02ch cd f 01 0 21 8 11 0	,000h, ,003h, ,016h, ,020h, ,037h, ,004h, e 05 9 00 2 03 c f0	on on on 00001 00091 00011 00001 00011 00031 ;; ; ; ;	green cyan yellow white h,001h,00 h,00fh,00 h,004h,00 h,020h,00 h,022h,00 h,000h,00	PAPER PAPER PAPER PAPER PAPER 00h, 01ah, 006h, 080h, 001h, 007h, 00dh, 013h, 019h; 15h, 002h, 008h, 00eh, 014h, 01ah, 006h, 00ch, 012h; 07h, 00ah, 003h, 006h, 009h, 002h, 005h, 008h; 000h; 20h, 043h, 04fh, 04dh, 0ddh, 021h, 000h, 000h, 011h; 04h, 0ddh, 021h, 000h, 020h, 011h, 000h, 020h, 03eh; 00h;	
10382h: 103afh: 103d8h:	defb defb defb defb defb defb defb defb	023h ; 02ah ; 02ah ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch	0001 bh,0111 4h,00ah 9h,0531 0h,03eb 7h,0cdl ;03d8 ;03db ;03de ;03e1 ;03e1	dreen magen red blue black h,000h h,017h h,010h h,020h h,0feh h,0c2h cd f 01 0 21 8 11 0 ed b	,000h, ,003h, ,003h, ,016h, ,020h, ,037h, ,004h, e 05 9 00 2 03 c f0 0	on on on 00001 00091 00011 00001 00011 00031 ;; ;; ;;	green cyan yellow white h,001h,00 h,00fh,00 h,004h,00 h,020h,00 h,022h,00 h,000h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h:	defb defb defb defb defb defb defb defb	023h ; 023h ; 02ah ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch	0001 bh,0111 4h,00ah 9h,0531 0h,03eh 7h,0cdh ;03d8 ;03d8 ;03de ;03de ;03de ;03e1 ;03e4	dreen magen red blue black h,000h h,017h h,020h h,020h h,0c2h cd f 01 0 21 8 11 0 ed b	<pre>INK INK INK INK INK INK ,000h, ,003h, ,016h, ,020h, ,037h, ,004h, e 05 9 00 2 03 c f0 0</pre>	on on on 0001 0001 0001 0001 0001 0001 0	green cyan yellow white h,001h,00 h,004h,00 h,020h,00 h,0c2h,00 h,0c2h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h:	defb defb defb defb defb defb defb defb	023h ; 023h ; 02ah ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch	0001 bh,0111 4h,00ah 9h,0531 0h,03eh 7h,0cdh ;03db ;03db ;03de ;03e1 ;03e4	dreen magen red blue black h,000h h,017h h,010h h,020h h,02ch cd f 01 0 21 8 11 0 ed b	100 100 100 100 100 100 100 100	on on on 00001 00011 00001 00011 00001 00011 00001 00011 00001 00011 00001 00011 00001 00011 00001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 0001 00001 000000	green cyan yellow white h,001h,00 h,001h,00 h,004h,00 h,020h,00 h,020h,00 h,000h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h:	defb defb defb defb defb defb defb defb	023h; 023h; 02ah; 031h; 038h; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch	0001 bh,0111 4h,00ah 9h,0531 0h,03eb 7h,0cdl ;03d8 ;03db ;03de ;03e1 ;03e4 ;03e4	green magen red blue black h,000h h,017h h,010h h,020h h,02ch cd f 01 0 21 8 11 0 ed b cd e	<pre>INK INK INK INK INK INK ,000h, ,003h, ,016h, ,020h, ,037h, ,004h, e 05 9 00 2 03 c f0 0 9 05 </pre>	on on on 00001 00011 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00201 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 000000	green cyan yellow white h,001h,00 h,00fh,00 h,004h,00 h,020h,00 h,022h,00 h,000h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h:	defb defb defb defb defb defb defb defb	023h ; 023h ; 02ah ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h	0001 bh,011 4h,00ah 9h,0531 0h,03eh 7h,0cdf ;03d8 ;03db ;03de ;03e1 ;03e6 ;03e6	dreen magen red blue black h,000h h,017h h,010h h,020h h,0c2h cd f 01 0 21 8 11 0 ed b cd e e6 2	<pre>INK INK INK INK INK INK INK ,000h, ,003h, ,016h, ,020h, ,037h, ,004h, e 05 9 00 2 03 c f0 0 9 05 0</pre>	on on on 00001 00091 00011 00201 00201 00201 00201 00201 00201 ;;;;;;;;;;	green cyan yellow white h,001h,00 h,004h,00 h,020h,00 h,0c2h,00 h,000h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h:	defb defb defb defb defb defb defb defb	023h ; 023h ; 02ah ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h 03fbh	0001 bh,0111 4h,00ah 9h,0531 0h,03eh 7h,0cdh ;03dB ;03dB ;03dB ;03de ;03e1 ;03e4 ;03e9 ;03e9	green magen red blue black n,000h n,017h n,010h n,020h n,020h n,0c2h cd f 01 0 21 8 11 0 ed b cd e e6 2 20 0	100 100 100 100 100 100 100 100	on on on 00001 00011 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 000000	green cyan yellow white h,001h,00 h,00fh,00 h,004h,00 h,020h,00 h,022h,00 h,002h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h:	defb defb defb defb defb defb defb defb	023h; 023h; 02ah; 031h; 038h; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h 03fbh f00dh)	000f bh,011f 4h,00af 9h,053f 0h,03ef 7h,0cdf ;03d8 ;03db ;03db ;03de ;03ef ;03ef ;03e9 ;03eb ;03ed	green magen red blue black n,000h n,017h n,010h n,020h n,0feh n,0c2h cd f 01 0 21 8 11 0 ed b cd e e6 2 20 0 3a 0	<pre>INK ta INK INK INK INK INK ,000h, ,003h, ,016h, ,020h, ,037h, ,004h, e 05 9 00 2 03 c f0 0 9 05 0 e d f0</pre>	on on on on 00001 00091 00011 00201 00201 00201 00201 00231 ;; ; ; ; ; ; ; ; ; ;	green cyan yellow white h,001h,00 h,004h,00 h,004h,00 h,002h,00 h,002h,00 h,000h,00	PAPER PAPER PAPER PAPER 000h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h:	defb defb defb defb defb defb defb defb	023h ; 023h ; 02ah ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h 03fbh f00dh)	0001 bh,011 4h,00a 9h,053 0h,03e 7h,0cd ;03d8 ;03db ;03de ;03e ;03e4 ;03e6 ;03e9 ;03eb ;03e0 ;03e0	n och a, 000h a, 000h a, 017h a, 010h a, 020h a, 02	<pre>INK INK INK INK INK INK INK ,000h, ,003h, ,016h, ,020h, ,037h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,000</pre>	on on on 00001 00011 00001 00011 00001 00011 00001 ;;;;;;;;	green cyan yellow white h,001h,00 h,004h,00 h,020h,00 h,0c2h,00 h,0c2h,00 h,000h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h:	defb defb defb defb defb defb defb defb	023h; 023h; 023h; 031h; 038h; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0382h f00ch b_05e9h h 038bh f00dh) 0dh),a	0001 bh,011H 4h,00aH 9h,053H 0h,03eH ;03dB ;03dB ;03dB ;03dB ;03de ;03e4 ;03e6 ;03e9 ;03eb ;03e0 ;03e1	green magen red blue black n,000h n,017h n,010h n,020h n,020h n,0c2h cd f 01 0 c1 8 11 0 ed b cd e e6 2 20 0 3a 0 3c 32 0	1 NAK 1 NAK 1 NK 1 NK	on on on on 0001 0009 0001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 000001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 000000	green cyan yellow white h,001h,00 h,001h,00 h,002h,00 h,020h,00 h,002h,00 h,000h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h:	defb defb defb defb defb defb defb defb	023h; 023h; 02ah; 031h; 038h; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 00382h f00ch b_05e9h h 03fbh f00dh),a	000f bh,011f 4h,00af 9h,053f 0h,03ef 7h,0cdf ;03d8 ;03d8 ;03d8 ;03d9 ;03e4 ;03e6 ;03e9 ;03e6 ;03e9 ;03e6 ;03e9 ;03e6	green magen red blue black n,000h n,017h n,010h n,020h n,020h n,02ch cd f 01 0 21 8 11 0 ed b cd e e6 2 20 0 3a 0 3c 32 0 fe 0	1 NAK 1 NAK 1 NK 1 NK	on on on on 0001 0001 0001 0001 0001 000	green cyan yellow white h,001h,00 h,004h,00 h,002h,00 h,022h,00 h,002h,00	PAPER PAPER PAPER PAPER 000h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h:	defb defb defb defb defb defb defb defb	023h ; 023h ; 023h ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h 03fbh f00dh),a 03e6b	0001 bh,0111 4h,00ah 9h,0531 0h,03eh 7h,0cdf ;03d8 ;03db ;03de ;03eb ;03ed ;03e0 ;03e0 ;03e0 ;03e0 ;03f0 ;03f4	green magen red blue black h,000h h,017h h,010h h,020h h,0c2h cd f 01 0 21 8 11 0 ed b cd e e6 2 20 0 3 c 32 0 fe 0 20 20	<pre>INKK INK INK INK INK INK ,000h, ,003h, ,016h, ,020h, ,037h, ,004h, e 05 9 00 2 03 c f0 0 9 05 0 e d f0 d f0 4 e</pre>	on on on on 0001 0001 0001 0001 0001 000	green cyan yellow white h,001h,00 h,004h,00 h,020h,00 h,0c2h,00 h,002h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h:	defb defb defb defb defb defb defb defb	023h ; 023h ; 023h ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0302h f00ch b_05e9h h 03fbh f00dh) 03e6h 0b	0001 bh,011 4h,00a 9h,053 0h,03e 7h,0cd ;03d ;03d ;03d ;03d ;03d ;03e ;03e ;03e ;03e ;03e ;03e ;03e ;03e	green magen red blue black n,000h n,017h n,010h n,020h n,020h n,0c2h cd f 01 0 21 8 11 0 ed b cd e e6 2 20 0 3a 0 3c 32 0 fe 0 20 e	1 NAK 1 NAK 1 NK 1 NK	on on on on 0000 0000 0000 0000 0000 00	green cyan yellow white h,001h,00 h,001h,00 h,002h,00 h,002h,00 h,002h,00 h,000h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h:	defb defb defb defb defb defb defb defb	023h; 023h; 023h; 031h; 038h; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05feh 00382h f00ch b_05e9h h 03fbh f00dh),a 03e6h 0h	0001 bh,0111 4h,00a4 9h,0531 0h,03e1 7h,0cdf ;03d8 ;03d8 ;03d8 ;03d8 ;03d8 ;03d8 ;03d8 ;03d8 ;03d8 ;03d8 ;03d8 ;03e9 ;03e9 ;03e0 ;03f0 ;03f1 ;03f6 ;03f8	green magen red blue black n,000h n,017h n,010h n,020h n,020h n,02ch cd f 01 0 21 8 11 0 ed b cd e e6 2 2 0 0 3 c 3 c 3 c 2 0 e c3 0	1 NAK 1 NAK 1 NK 1 NK	on on on 0001 0001 0001 0001 0001 0001 0	green cyan yellow white h,001h,00 h,004h,00 h,002h,00 h,022h,00 h,002h,00	PAPER PAPER PAPER PAPER 000h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h: 103fbh:	defb defb defb defb defb defb defb defb	023h ; 023h ; 023h ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h 03fbh f00dh),a 03e6h 0h	0001 bh,011 4h,00ał 9h,053ł 0h,053ł 7h,0cd ;03d8 ;03db ;03de ;03e4 ;03e6 ;03e9 ;03e6 ;03e0 ;03f0 ;03f1 ;03f4 ;03f8	green magen red blue black a,000h a,017h a,010h a,020h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,076h a,077h a,076h a,076h a,077h a,076h a,077h a,076h a,077h a,076h a,077h a,076h a,077h a,076h a,077h a,076h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,077h a,0	<pre>INK INK INK INK INK INK INK INK INK INK</pre>	on on on 0001 0001 0001 0001 0001 0001 0	green cyan yellow white h,001h,00 h,004h,00 h,020h,00 h,022h,00 h,002h,00	PAPER PAPER PAPER PAPER 000h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 004h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h: 103fbh:	defb defb defb defb defb defb defb defb	023h ; 023h ; 023h ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h 03fbh f00dh) 03e6h 0h b_05a8h	0001 bh,0111 4h,00ah 9h,0531 0h,03eh 7h,0cdh ;03db ;03db ;03de ;03eb ;03e6 ;03e6 ;03e9 ;03e6 ;03e6 ;03f1 ;03f4 ;03f8 ;03fb	green magen red blue black n,000h n,017h n,010h n,020h n,020h n,0c2h cd f 01 0 21 8 11 0 ed b cd e e6 2 200 0 3c 0 32 0 fe 0 20 e c3 0 cd a	1 NAK 1 NAK 1 NK 1 NK	on on on 0001 0009 0001 0000 0000 0000 0000 000	green cyan yellow white n,001h,00 n,004h,00 n,020h,00 n,0c2h,00 n,0c2h,00 n,000h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h: 103fbh:	defb defb defb defb defb defb defb defb	023h; 023h; 023h; 031h; 038h; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05feh 00382h f00ch b_05e9h h 03fbh f00dh) a 03e6h 0h b_05a8h 8000h	0001 bh,0111 4h,00ah 9h,0531 0h,03eh 7h,0cdh ;03db ;03db ;03de ;03e1 ;03e4 ;03e6 ;03e9 ;03e0 ;03f0 ;03f4 ;03f6 ;03f8 ;03fb	green magen red blue black n,000h n,017h n,010h n,020h n,020h n,0c2h cd f 01 0 21 8 11 0 ed b cd e e6 2 20 0 3a 0 3c 0 fe 0 20 e c3 0 cd a 21 0	1 INK 1	on on on on 0001 0001 0001 0001 0001 000	green cyan yellow white h,001h,00 h,004h,00 h,020h,00 h,020h,00 h,022h,00 h,002h,00	PAPER PAPER PAPER PAPER 000h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 00h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h: 103fbh:	defb defb defb defb defb defb defb defb	023h ; 023h ; 023h ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h 03fbh f00dh),a 03e6h 0h b_05a8h 8000h	0001 bh,0111 4h,00ah 9h,0531 0h,03eh 7h,0cdi ;03d8 ;03db ;03de ;03e9 ;03e9 ;03e9 ;03e9 ;03e4 ;03f0 ;03f1 ;03f4 ;03f8 ;03fb ;03fb	green magen red blue black n,000h n,017h n,010h n,020h n,0feh n,0feh n,0feh n,0c2h cd f 01 0 21 8 11 0 ed b cd e e6 2 20 0 3c 32 0 fe 0 20 e c3 0 cd a 21 0 c2 0	<pre>INKK INKK INKK INKK INKK INKK INKK INK ,000h,,003h, ,016h, ,020h, ,037h, ,007h, ,007h, ,007h, e 05 9 00 2 03 c f0 0 0 2 03 c f0 0 0 9 05 0 e d f0 d f0 4 e 0 000 8 05 0 80 8 f0</pre>	on on on on 0001 0001 0001 0001 0001 000	green cyan yellow white h,001h,00 h,004h,00 h,020h,00 h,022h,00 h,002h,00	PAPER PAPER PAPER PAPER 000h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 00h; 00h;	
10382h: 103afh: 103d8h: 103e6h: 103fbh:	defb defb defb defb defb defb defb defb	023h ; 023h ; 023h ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h 03fbh f00dh) 03fbh f00dh) 04),a 03e6h 0h b_05a8h 8000h 08h),hl 0a01h	0001 bh,0111 4h,00ah 9h,0531 0h,03eh 7h,0cdH ;03dB ;03db ;03de ;03ed ;03ed ;03ed ;03ed ;03ed ;03ed ;03ed ;03fd ;03fd ;03fb ;03fb ;0404	green magen red blue black a,000h a,017h a,010h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,020h a,0	1 NAK 1 NKK 1	on on on 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 000000	green cyan yellow white h,001h,00 h,004h,00 h,020h,00 h,0c2h,00 h,0c2h,00 h,000h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h: 103fbh:	defb defb defb defb defb defb defb defb	023h ; 023h ; 023h ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05feh 00382h f00ch b_05e9h h 03fbh f00dh) a03e6h 0h b_05a8h 8000h 08h),h1 0a01h b_04b3h	0001 bh,0114 4h,00ał 9h,053ł 0h,03eł 7h,0cdł ;03d8 ;03d8 ;03d8 ;03d8 ;03d8 ;03d9 ;03e6 ;03e9 ;03e6 ;03e9 ;03e6 ;03f0 ;03f4 ;03f6 ;03f8 ;03f8 ;03f6 ;03f8 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;03f9 ;040 ;040 ;040 ;040 ;040 ;040 ;040 ;04	green magen red blue black n,000h n,017h n,010h n,020h n,018h n,0c2h cd f 01 0 21 8 11 0 ed b cd e e6 2 20 0 3a 0 20 e c3 0 cd a 21 0 22 0 01 0 cd b	1 INK INK INK INK INK INK INK INK	on on on on 0000 0000 0000 0000 0000 00	green cyan yellow white n,001h,00 n,004h,00 n,020h,00 n,022h,00 n,002h,00 n,000h,00	PAPER PAPER PAPER PAPER 000h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 00h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h: 103fbh:	defb defb defb defb defb defb defb defb	023h ; 023h ; 023h ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h 03fbh f00dh),a 03e6h 0h b_05a8h 8000h 0a8h),h1 0a0h,1a	0001 bh,0111 4h,00ah 9h,0531 0h,03eb 7h,0cdh ;03d8 ;03db ;03de ;03e0 ;03e0 ;03e0 ;03e0 ;03e0 ;03f0 ;03f4 ;03f6 ;03f8 ;03fb ;03fe ;0401 ;0404 ;0404	green magen red blue black n,000h n,017h n,010h n,020h n,0feh n,0feh n,0feh n,0feh n,0feh n,0feh n,010 21 8 11 0 ed b cd e e6 2 20 0 3c 32 0 fe 0 20 e c3 0 cd a 21 0 cd a 22 0 0 10 22 0 0 10 22 0 0 10 22 0 0 10 22 0 0 10 22 0 0 10 22 0 0 10 22 0 0 22 0 0 20 cd a 22 0 0 20 cd a 22 0 20 cd a 22 0 20 cd a 22 0 20 cd a 22 0 20 cd a 20 cd a 21 0 20 cd a 22 0 20 cd a 20 cd a 2	INKK INKK INKK INKK INKK INKK INKK INKK	on on on 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 000000	green cyan yellow white h,001h,00 h,004h,00 h,020h,00 h,022h,00 h,002h,00 h,002h,00	PAPER PAPER PAPER PAPER 000h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 004h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h: 103fbh:	defb defb defb defb defb defb defb defb	023h ; 023h ; 023h ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h 03fbh f00dh) , 03e6h 0h b_05a8h 8000h 08h),hl 08h),hl 0a01h b_04b3h 20h),a	0001 bh,011 4h,00a 9h,053 0h,03e 7h,0cd ;03d8 ;03db ;03de ;03e ;03e ;03e ;03e ;03e ;03e ;03e ;03	green magen red blue black n,000h n,017h n,010h n,020h n,020h n,0c2h cd f 01 0 c1 8 11 0 ed b cd e e6 2 200 0 3c 0 cd a 21 0 20 e c3 0 cd a 21 0 22 2 cd b cd a 21 0 cd b cd b cd a cd a 21 0 cd b cd a cd a cd a cd a cd a cd a cd a cd a	INKK INKK INKK INKK INKK INKK INKK INK ,000h, ,003h, ,003h, ,004h, e 05 9 00 2 03 c f0 0 9 05 0 e d f0 4 e 0 000 4 e 0 000 4 e 0 000 8 05 0 8 05 0 8 05 0 8 05 0 8 05 0 000 1 0a 3 04 0 f0	on on on 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 000000	green cyan yellow white h,001h,00 h,004h,00 h,020h,00 h,0c2h,00 h,0c2h,00 h,000h,00	PAPER PAPER PAPER PAPER 00h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h: 103fbh:	defb defb defb defb defb defb defb defb	023h; 023h; 023h; 023h; 023h; 023h; 023h; 023h; 038h; 005h,00 018h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h 03fbh f00dh),a 03e6h 0h b_05a8h 8000h 03e1h b_05a8h 8000h 03e1h; 03e1h; 03e2h 03e2h 03e2h 03e2h 03e2h 03e2h 03e2h 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 000h,02 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 0000h 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;03f9 ;03f0 ;03f0 ;03f0 ;03f0 ;03f0 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;03f8 ;0401 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 ;0407 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n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h 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10382h: 103afh: 103d8h: 103e6h: 103fbh:	defb defb defb defb defb defb defb defb	023h ; 023h ; 023h ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h 03fbh f00dh),a 03e6h 0h b_05a8h 8000h 0a9h),h1 0a01h b_04b3h 20h),a 0eh),a	0001 bh,0111 4h,00ah 9h,0531 0h,03eb 7h,0cdh ;03d8 ;03db ;03de ;03e0 ;03e0 ;03e0 ;03e0 ;03e0 ;03f0 ;03f4 ;03f6 ;03f8 ;03f8 ;03fb ;03fe ;0401 ;0404 ;0400 ;0400 ;0400	green magen red blue black n,000h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h n,017h n,010h 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,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h, ,007h	on on on 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 000000	green cyan yellow white h,001h,00 h,004h,00 h,020h,00 h,022h,00 h,002h,00 h,002h,00	PAPER PAPER PAPER PAPER 000h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 00dh,021h,000h,020h,011h,000h,020h,03eh; 00h;	
10382h: 103afh: 103d8h: 103e6h: 103fbh:	defb defb defb defb defb defb defb defb	023h ; 023h ; 023h ; 031h ; 038h ; 005h,00 018h,00 053h,05 000h,02 0feh,03 b_05feh 0009h 0382h f00ch b_05e9h h 03fbh f00dh),a 03e6h 0h b_05a8h 8000h 08h),h1 0a01h b_04b3h 20h),a 0eh),a	0001 bh,011 4h,00a 9h,053 0h,03e 7h,0cd ;03d8 ;03db ;03de ;03e ;03e ;03e0 ;03f0 ;03f1 ;03f4 ;03f6 ;03f6 ;03f8 ;03f6 ;03f9 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;03f4 ;040 ;040 ;040 ;040 ;040 ;040 ;040 ;0	green magen red blue black n,000h n,017h n,010h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,020h n,0	INK INK INK INK INK INK INK INK INK INK	on on on 00000 00000 00000 00000 00000 00000 0000	green cyan yellow white h,001h,00 h,004h,00 h,020h,00 h,020h,00 h,002h,00 h,000h,00	PAPER PAPER PAPER PAPER 000h,01ah,006h,080h,001h,007h,00dh,013h,019h; 15h,002h,008h,00eh,014h,01ah,006h,00ch,012h; 07h,00ah,003h,006h,009h,002h,005h,008h; 000h; 20h,043h,04fh,04dh,0ddh,021h,000h,000h,011h; 04h,0ddh,021h,000h,020h,011h,000h,020h,03eh; 00h;	

10415h:				
	call sub_0563h	;0415	cd 63 05	;
	ld c,008h	;0418	0e 08	;
	call sub 04eeh	;041a	cd ee 04	;
	ip nz,00000h	;041d	c2 00 00	;
	ld a.(08000h)	:0420	3a 00 80	
	or a	:0423	b7	;
	ir z 1042eh	• 0424	28 08	΄.
	gn 0.5h	,0426	20 00 fo o5	
	tr a 1042ab	,0420	10 01	
	Jf 2,1042en	,0420	20 04	
	ia a,002n	;042a	3e UZ	;
1040.1	jr 10421n	;0420	18 01	;
1042en:			<i>c</i>	
	xor a	;042e	ai	;
1042fh:				
	ld (Of021h),a	;042f	32 21 f0	;
	call sub_0563h	;0432	cd 63 05	;
	call sub_04beh	;0435	cd be 04	;
	call sub 0509h	;0438	cd 09 05	;
	jp c,00000h	;043b	da 00 00	;
	ld de,08800h	;043e	11 00 88	;
	ld (0f008h),de	;0441	ed 53 08	f0;
	ld de,00010h	;0445	11 10 00	;
	add hl.de	:0448	19	
10449h•	. ,	,	-	,
	ld a.(hl)	:0449	7e	
	-~ ~, (+++)	:04/-	h7	΄.
	ir z 10400b	,0114 •0114	28 13	΄.
	ע ב <b>ו</b> על דע בע <b>ו</b> ע בער גע אוומ	,0440	20 HJ 05	
	han noor	,0440	e0 00	;
	ia n,000h	;044e	26 00	;
	⊥α ⊥,a	;0450	6I	;
	call sub_0530h	;0451	cd 30 05	;
	⊥d a,(0f011h)	;0454	3a 11 f0	;
	or a	;0457	b7	;
	jr z,1045fh	;0458	28 05	;
	ld bc,00208h	;045a	01 08 02	;
	jr 10462h	;045d	18 03	;
1045fh:				
	ld bc,00808h	;045f	01 08 08	;
10462h:				
	ld a.d	;0462	7a	;
	ld (OfOOeh),a	;0463	32 0e f0	;
	push de	:0466	d5	,
	1d d 000b	,0467	16 00	
	coll cub 0559b	,0469	rd 50 05	΄.
	ld (0f010b) -	,0409	22 10 40	
	IG (UIUIUII), a	,0400	52 10 10	<i>.</i>
	call sub_04een	;0401	-2 00 00	;
	jp nz,00000n	;0472	C2 UU UU	;
	ld hl,(OfOleh)	;0475	2a 1e f0	;
	ld (Of008h),hl	;0478	22 08 f0	;
	ld hl,(Of01ch)	;047b	2a 1c f0	;
	inc hl	;047e	23	;
	pop de	;047f	d1	;
	inc e	;0480	1c	;
	ld a,e	;0481	7b	;
	cp l	;0482	bd	;
	jp c,10489h	;0483	da 89 04	;
	inc d	;0486	14	;
	ld a,001h	;0487	3e 01	;
10489h:				
	ld e,a	;0489	5f	;
	djnz 10462h	;048a	10 d6	;
	pop hl	;048c	el	
	inc hl	:048d	23	;
	ir 10449h	:0480	18 h9	
10490b•		, , , , , , , , , , , , , , , , , , , ,		'
1010011.	ld hl 104=5b	.0400	21 25 04	
	1d de 0e000b	·0/03	11 00 ~0	΄.
	ld be 0000ab	,0493	11 00 00	
	ldir	,0490	of 50	
	Tatt	,0499	21 00 0	1
	ra nr,ueuuuh	;049b	∠⊥ UU e0	;
	10 a,040n	;049e	3e 40	;
	out (UIEh),a	;04a0	as ie	;
	iα r,a	;04a2	ed 41	;
101	jp (h⊥)	;04a4	eУ	;
⊥∪4a5h:		<i>.</i> .		
	1d hl,08800h	;04a5	21 00 88	;
	ld de,00100h	;04a8	11 00 01	;
	ld bc,05000h	;04ab	01 00 50	;
	ldir	;04ae	ed b0	;
	jp 00100h	;04b0	c3 00 01	;
sub_04b	3h:			
	ld a,b	;04b3	78	;
	ld (OfOOch),a	;04b4	32 0c f0	;
	ld hl,106bah	;04b7	21 ba 06	;
				-

	call sub_0647h	;04ba	cd 4	706	;
	ret	;04bd	с9		;
sub_04b	en:	•04bo	h7		
	or a 104c6b	,04be	28 0	5	΄.
	ld bc.00408h	:04c1	01 0	S 04	
	jr 104c9h	;04c4	18 03	3	;
104c6h:	2				
	ld bc,01008h	;04c6	01 0	8 10	;
104c9h:					
	ld a,(0f021h)	;04c9	3a 21	1 f0	;
	ld (0f00eh),a	;04cc	32 00	e fO	;
104-111-	ld a,001h	;04ci	3e 01	1	;
1040111;	nuch af	·04d1	f5		
	ld e.a	:04d2	10 5f		
	ld d,000h	;04d3	16 0	0	;
	call sub 0559h	;04d5	cd 5	9 05	;
	ld (0f010h),a	;04d8	32 1	0 f0	;
	call sub_04eeh	;04db	cd e	e 04	;
	jr nz,104ebh	;04de	20 01	0	;
	<pre>Id h1, (0f01eh)</pre>	;04e0	2a 10	e iO	;
	la (UIUU8n),ni	;04e3	22 Ui £1	8 IU	;
	pop al inc a	,0400	30		΄.
	dinz 104d1h	:04e8	10 e'	7	;
	ret	;04ea	c9		;
104ebh:					,
	jp 00000h	;04eb	c3 0	0 0 0	;
sub_04e	eh:				
	push bc	;04ee	с5	o	;
	call_sub_05b9h	;04ef	cd b	9 05	;
	pop bc	;0412		_	;
104f5b•	id e, uuan	;0413	Te U	d	;
1041511.	nush hc	•04f5	c 5		
	push de	;04f6	d5		;
	ld hl,106bah	;04f7	21 b	a 06	;
	call sub 0647h	;04fa	cd 4	7 06	;
	pop de 🗌	;04fd	d1		;
	pop bc	;04fe	c1		;
	ret z	;04ff	C8		;
	dec e	;0500	Id C	~	;
	]r nz,10415n ld a (0f015b)	;0501	20 I.	2 5 f0	;
	and OcOb	,0505		0 I U	΄.
	ret	;0508	c9	0	;
sub 050	9h:				
_	ld hl,08000h	;0509	21 0	080	;
	ld de,103afh	;050c	11 a:	£ 03	;
	ld b,040h	;050f	06 4	0	;
10511h:	11 0516h	. OE 1 1	1 1.	- 0F	
	call sub_05110	,0514	ca I.	L US	
	nush de	:0515	d5		
	ld de,0001fh+1	;0516	11 2	0 0 0	;
	add hl,de	;0519	19		;
	pop de	;051a	d1		;
	djnz 10511h	;051b	10 f	4	;
	scf	;051d	37		;
oub off	ret fh:	;051e	C9		;
sub_051	rush bl	•051f	~5		
	push de	;0520	es d5		,
	push bc	;0521	c5		;
	ld b,00ch	;0522	06 00	2	;
10524h:					
	ld a,(de)	;0524	1a		;
	cp (hl)	;0525	be		;
	jr nz,1052ch	;0526	20 0	4	;
	inc ni	;0528	∠3 1 2		;
	dinz 10524h	;0329 :052a	10 f	8	<i>.</i>
1052ch•	une 1000111	,0020	TO T	~	'
	pop bc	;052c	c1		;
	pop de	;052d	d1		;
	pop hl	;052e	e1		;
	ret	;052f	с9		;
sub_053	Oh:				
105225	⊥d bc,003ffh	;0530	01 f:	± 03	;
⊥ub33h:	slal	.0522	ch 2	5	
	rl h	:0535	ch 1.	4	
	djnz 10533h	;0537	10 f	a	;
	inc hl	:0539	23		;

1052ch.	ld de,(OfOlch)	;053a	ed	5b	1c	f0;
1053eh:	<pre>inc c sbc hl,de jr nc,1053eh add hl,de ld a,(0f011h) or a jr z,10552h ld a,1</pre>	;053e ;053f ;0541 ;0543 ;0544 ;0544 ;0547 ;0548 ;054a	0c ed 30 19 3a b7 28 7d	52 fb 11 08	fO	;;;;;;;;;;
10552h:	dec a srl a srl a inc a ld l,a	;054b ;054c ;054e ;0550 ;0551	3d cb Cb 3c 6f	3f 3f		;;;;;;
sub 055	<pre>ld a, (0f021h) add a, c ld d, a ld e, l ret 9h:</pre>	;0552 ;0555 ;0556 ;0557 ;0558	3a 81 57 5d c9	21	fO	;;;;;
	<pre>push ix add ix,de ld a,(ix+000h) pop ix ret </pre>	;0559 ;055b ;055d ;0560 ;0562	dd dd dd dd c9	e5 19 7e e1	00	;;;;;
Sub_056	n: xor a ld (0f01dh),a ld a,(0f020h) or a jr z,1058ch	;0563 ;0564 ;0567 ;056a ;056b	af 32 3a b7 28	1d 20 1f	f0 f0	;;;;;
	<pre>1d a,046h 1d (0f00ch),a 1d a,00ah 1d (0f012h),a 1d a,028h 1d (0f01ch),a 1d ix,003a4h 1d h1,00002h</pre>	;056d ;056f ;0572 ;0574 ;0577 ;0579 ;057c ;0580	3e 32 3e 32 3e 32 dd 21	46 0c 12 28 1c 21 02	f0 f0 f0 a4 00	;; ;; ;; ;; 03; ;
1058ch:	<pre>ld (0f00ah),hl ld a,002h ld (0f011h),a ret</pre>	;0583 ;0586 ;0588 ;058b	22 3e 32 c9	0a 02 11	f0 f0	;;;;
sub 05a	<pre>1d a,006h 1d (0f00ch),a 1d a,01ah 1d (0f012h),a 1d (0f01ch),a 1d ix,0038ah 1d h1,08001h 1d (0f00ah),h1 xor a 1d (0f001h),a ret 8h.</pre>	;058c ;058e ;0591 ;0593 ;0596 ;0599 ;0590 ;05a0 ;05a3 ;05a4 ;05a7	3e 32 3e 32 dd 21 22 af 32 c9	06 0c 1a 12 1c 21 01 0a 11	f0 f0 8a 80 f0 f0	; ; ; ; 03; ; ; ; ;
_	<pre>call sub_05d2h ld a,007h out (0fdh),a call sub_061ah ld a,(0f00dh) out (0fdh),a halt ret</pre>	;05a8 ;05ab ;05ad ;05af ;05b2 ;05b5 ;05b7 ;05b8	cd 3e d3 cd 3a d3 76 c9	d2 07 fd 1a 0d fd	05 06 f0	;;;;;;;;;
sub_05b	<pre>yh: call sub_05d2h ld a,00fh out (0fdh),a call sub_06lah ld a,(0f00dh) out (0fdh),a call sub_06lah ld a,(0f00eh) out (0fdh),a halt ret 2h:</pre>	;05b9 ;05bc ;05be ;05c0 ;05c3 ;05c6 ;05c8 ;05cb ;05cb ;05cc ;05c0 ;05c0 ;05d0	cd 3e d3 cd 3a d3 cd 3a d3 76 c9	d2 Of fd 1a 0d fd 1a 0e fd	05 06 f0 06 f0	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
105dch:	call sub_05e9h and 020h jr nz,105dch jp 00000h	;05d2 ;05d5 ;05d7 ;05d9	cd e6 20 c3	e9 20 03 00	05 00	;;;;
	call sub 0620h	;05dc	cd	20	06	;

ld	hl,1069ch	;05df	21	9c	06	;
Id	(UIUUUh),hl	;05e2	22 cd	14	10 06	;
re	t Sub_001411	;05e8	c9	14	00	;
sub 05e9h:						
- ca	ll sub_0614h	;05e9	cd	14	06	;
ld	a,004h	;05ec	3e	04		;
ou	t (0fdh),a	;05ee	d3	fd		;
ca	11 sub_061ah	;05f0	cd	1a	06	;
Id	a,(0100dh)	;0513	3a Ja	0d	±Ο	;
ou	t (UIGN),a	;USI6 .05f0	a3 ad	1a	06	;
in	a.(Ofdh)	,0510 :05fb	db	fd	00	
re	t	;05fd	c 9	20		;
sub 05feh:						
_ ca	ll sub_0614h	;05fe	cd	14	06	;
ld	a,003h	;0601	3e	03		;
ou	t (0fdh),a	;0603	d3	fd		;
ca	ll sub_061ah	;0605	cd	la	06	;
Id	a,031h + (0fdb) -	;0608	Je do	JI fa		;
ou	t (UIGN),a	;060a	as	12	06	
1d	a.017h	:060f	3e	17	00	
011	t (Ofdh),a	:0611	d3	fd.		;
re	t (0-000,000	;0613	c9			;
sub 0614h:						
_ in	a,(0f5h)	;0614	db	f5		;
an	d 01fh	;0616	e6	1f		;
jr	nz,sub_0614h	;0618	20	fa		;
sub_061ah:	(0.55)	0.51		<b>c</b> -		
in	a,(U15h)	;061a	db	15		;
rl i~	nc sub 061-5	,UDIC	0 / 2 N	fh		;
JI ra	t.	;061f	20 C 9	τIJ		:
sub 0620h:	-	,				'
di		;0620	f3			;
im	2	;0621	ed	5e		;
ld	hl,0f000h	;0623	21	00	fO	;
ld	a,h	;0626	7c			;
ld	i,a	;0627	ed	47		;
ld	a,1	;0629	7d	. ^		;
ou	t (Ue3h),a	;062a	d3	e3 24		;
Tq	a, UUIII + (Aash) -	;U02C	ುe ನಾ	uI 62		;
0U	a.001h	,0020 :0630	45 45	ез () 1		;
011	t (0e3h).a	;0632	d.3	e3		;
ld	hl,(Of00ah)	;0634	2a	0a	fO	;
ld	a,05fh	;0637	3e	5f	-	;
ou	t (0ebh),a	;0639	d3	eb		;
ld	a,h	;063b	7c			;
ou	t (0ebh),a	;063c	d3	eb		;
ld	a,05fh	;063e	3e	5f		;
ou	t (Of3h),a	;0640	d3	f3		;
ld	a,1	;0642	7d	~ ~		;
ou	t (U±3h),a	;0643	d3	±З		;
el	+	;0645	dI a			;
re sub 06475.	L	;0646	сy			;
340_004/11:	(Of000h) bl	:0647	22	00	fO	
са	11 sub 0620h	;064a	cd	20	06	;
ld	hl, (0f008h)	;064d	2a	08	fO	;
ld	de,0f00ch	;0650	11	0c	fO	;
ca	ll sub_0614h	;0653	cd	14	06	;
10656h:						
са	ll sub_061ah	;0656	cd	1a	06	;
ld	a, (de)	;0659	1a	<i>.</i> .		;
ou	t (Uidh),a	;065a	d3	fd		;
in	c de	;065C	T3			;
ae	ng 106565	,0650	υα 20	fG		;
Jľ	11 sub 061ab	;0660	∠∪ cd	1a	06	:
14	a, (de)	;0663	la	тα	00	;
ld	b,020h	;0664	06	20		;
ld	c,0fdh	;0666	0e	fd		;
ou	t (0fdh),a	;0668	d3	fd		;
ha	lt	;066a	76			;
1066bh:						
in	a,(0f5h)	;066b	db	f5		;
an	d b	;066d	a0	<i></i>	. ·	;
jp	nz,1066bh	;066e	c2	6b	06	;
1d	d,000h	;0671	06	00		;
±µد/out:	ng 106725	.0672	10	fo		
	nz 100/30	;00/3 :0675	10 2h	⊥е		;
ue	U 111	,0015	2.0			'
## Turbo Spectrum Specification

	ld a,(h1) ld h1,0f015h ld (h1),a inc h1	;0679 ;067a ;067d ;067e	7e 21 15 f0 77 23	;;;;	
106/fh:	<pre>call sub_061ah in a,(0fdh) ld (h1),a inc h1 ld b,000h</pre>	;067f ;0682 ;0684 ;0685 ;0686	cd 1a 06 db fd 77 23 06 00	;;;;;	
10688h:	djnz 10688h in a,(0f5h) and 010h jr nz,1067fh ld h1,1069ch ld (0f000h),h1 ld a,(0f015h) and 0c0h ret	;0688 ;068a ;068c ;068e ;0690 ;0693 ;0693 ;0699 ;069b	10 fe db f5 e6 10 20 ef 21 9c 06 22 00 f0 3a 15 f0 e6 c0 c9	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
1002011	<pre>push af push h1 ld h1,0f015h call sub_061ah ld a,008h out (0fdh),a call sub_061ah in a,(0fdh) ld (h1),a inc h1 call sub_061ah in a,(0fdh) ld (h1),a pop h1 pop af ei reti</pre>	;069c ;069d ;06a4 ;06a4 ;06a8 ;06a8 ;06a8 ;06a6 ;06af ;06b2 ;06b4 ;06b5 ;06b5 ;06b6	f5 e5 21 15 f0 cd 1a 06 3e 08 d3 fd cd 1a 06 db fd 77 23 cd 1a 06 db fd 77 e1 f1 f1 fb ed 4d	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
106bah:	ini inc b ei reti	;06ba ;06bc ;06bd ;06be	ed a2 04 fb ed 4d	;;;;	
106c0h:	ld bc,02000h ld de,08000h ld h1,04000h ld ir ld bc,02000h ld de,0e000h ld h1,06000h ldir	;06c0 ;06c3 ;06c6 ;06c9 ;06cb ;06ce ;06d1 ;06d4	01 00 20 11 00 80 21 00 40 ed b0 01 00 20 11 00 e0 21 00 60 ed b0	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
106d6h:	ld hl,00000h xor a out (Ofeh),a ld r,a jp (hl)	;06d6 ;06d9 ;06da ;06dc ;06de	21 00 00 af d3 fe ed 4f e9	;;;;;	
106dfh:	<pre>ld sp,0c000h scf ld ix,08000h ld de,02000h ld a,0feh call sub_073ah jp nc,00000h ld ix,0e000h ld de,02000h scf ld a,0feh call sub_073ah jp nc,00000h jp l06d6h</pre>	;06df ;06e2 ;06e3 ;06ec ;06ec ;06ef ;06f2 ;06f6 ;06f6 ;06f6 ;06f6 ;06ff ;06ff	31         00         c0           37         00         11         00         20           3e         fe         00         00         0d         21         00         0d         21         00         0d         21         00         0d         21         00         11         00         20         37         36         fe         cd         3a         07         d2         00         03         37         56         fe         cd         3a         07         d2         00         00         c3         d6         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06         06 <td>;;; 80;;;;; e0;;;;;;</td> <td></td>	;;; 80;;;;; e0;;;;;;	
; parti. 10705h:	al keyboard test				; cycles
	rra jp c,10710h ld a,002h	;0705 ;0706 ;0709	1f da 10 07 3e 02	; ; ;	<pre>rotate right all, CY=or(col 0) ; 4 jump if "SPACE,"Q","A","CS" not pressed ; 10</pre>
1070bh:	out (c),a jp 006c0h	;070b ;070d	ed 79 c3 c0 06	;;	
10710h:	rra jp c,KB_return	;0710 ;0711	1f da b7 00	; ;	<pre>rotate right all, CY=or(col 1) ; 4 jump if "SS,"W","S","Z" not pressed ; 10</pre>

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	ld a,005h	;0714	3e 05 ;	
	jp 1070bh	;0716	c3 0b 07 ;	
10719h:				
	ld a,004h	;0719	3e 04 ;	
	out (c),a	;071b	ed 79 ;	
	jp 106c0h	;071d	c3 c0 06 ;	
	rlca	;0720	07 ;	
	jp c,106c0h	;0721	da c0 06 ;	
	push ix	;0724	dd e5 ;	
	pop ai	;0726	11 ;	
	and USIN	;0720	eb 31 ;	
	SIL d erl a	,0725	ch 3f ;	
	srl a	:072d	ch 3f ;	
	ld e,a	;072f	5f ;	
	ld d,000h	;0730	16 00 ;	
	ld hl,0da8ch	;0732	21 8c da ;	
	add hl,de	;0735	19 ;	
105001	set 7,(hl)	;0736	cb fe ;	
10/38h:	10720h	. 0720	10 5-	
aub 072	jr 10/380	;0738	18 Ie ;	
sub_073	inc d	·073a	14 .	
	ex af.af'	:073b	08 :	
	dec d	;073c	15 ;	
	di	;073d	f3 ;	
	ld a,00fh	;073e	3e Of ;	
	out (Ofeh),a	;0740	d3 fe ;	
	in a,(Ofeh)	;0742	db fe ;	
	rra	;0744	1f ;	
	and 020h	;0745	e6 20 ;	
	or UU2n	;0747	I6 UZ ;	
	ru c, a	,0749 •074a	41 ; hf ;	
1074bh•	cp u	, o / 10		
10, 1011.	ret nz	;074b	c0 ;	
1074ch:				
	call sub_07c7h	;074c	cd c7 07 ;	
	jr nc <b>,</b> 1074bh	;074f	30 fa ;	
	ld hl,10415h	;0751	21 15 04 ;	
10754h:	1. 107541	0754	10 5	
	djnz 10754n dog bl	;0754	IU IE ;	
	dec ni ld a b	;0757	ZD ;	
	or 1	,0758	, h5 ,	
	ir nz.10754h	:0759	20 f9 ;	
	call sub 07c3h	;075b	cd c3 07 ;	
	jr nc,1074bh	;075e	30 eb ;	
10760h:				
	ld b,09ch	;0760	06 9c ;	
	call sub_07c3h	;0762	cd c3 07 ;	
	jr nc,1074bh	;0765	30 e4 ;	
	Id a,UC6h	;0/6/	3e c6 ;	
	ir ng 1074ch	,0762	30 0 ;	
	inc h	,076c	24 ,	
	ir nz,10760h	;076d	20 f1 ;	
1076fh:	<b>j</b>		,	
	ld b,0c9h	;076f	06 c9 ;	
	call sub_07c7h	;0771	cd c7 07 ;	
	jr nc,1074bh	;0774	30 d5 ;	
	Id a,b	;0776	78 ;	
	cp va4h	; 0////	re d4 ;	
	$J \perp IIC, \pm U/0III$	;0//9 •077h	cd c7 07 ;	
	ret nc	:0770	d0 ·	
	ld a.c	;077f	79 ;	
	xor 003h	;0780	ee 03 ;	
	ld c,a	;0782	4f ;	
	ld h,000h	;0783	26 00 ;	
	ld b,0b0h	;0785	06 b0 ;	
107001	jr 107a8h	;0787	18 lf ;	
T0/89U:	ev af af!	.0700	0.8 -	
	⊂∧ a⊥,a⊥ ir nz.10793h	:0782	20 07 ;	
	ir nc.1079dh	:078c	30 Of ,	
	ld (ix+000h).1	;078e	dd 75 00 :	
	jr 107a2h	;0791	18 Of ;	
10793h:				
	rl c	;0793	cb 11 ;	
	xor l	;0795	ad ;	
	ret nz	;0/96	CU ;	
	⊥u a,c	;0/9/	/9 ; 1f ·	
	тта	,0190	±± ;	

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	ld c,a	;0799	4f ;	
	inc de	;079a	13 ;	
	jr 107a4h	;079b	18 07 ;	
1079dh:				
	ld a,(ix+000h)	;079d	dd 7e 00 ;	
	xor l	;07a0	ad ;	
	ret nz	;07a1	c0 ;	
107a2h:				
	inc ix	;07a2	dd 23 ;	
107a4h:				
	dec de	;07a4	1b ;	
	ex af,af'	;07a5	08 ;	
	ld b,0b2h	;07a6	06 b2 ;	
107a8h:				
	ld 1,001h	;07a8	2e 01 ;	
107aah:				
	call sub_07c3h	;07aa	cd c3 07 ;	
	ret nc	;07ad	d0 ;	
	ld a, Ucbh	;07ae	3e cb ;	
	cp b	;0760	; 8d	
	rl l	;07b1	cb 15 ;	
	ld b,0b0h	;0763	06 b0 ;	
	jp nc,107aah	;07b5	d2 aa 07 ;	
	ld a,h	;07b8	7c ;	
	xor l	;07b9	ad ;	
	ld h,a	;07ba	67 ;	
	ld a,d	;07bb	7a ;	
	or e	;07bc	b3 ;	
	jr nz,10789h	;07bd	20 ca ;	
	ld a,h	;07bf	7c ;	
	cp 001h	;07c0	fe 01 ;	
	ret	;07c2	c9 ;	
sub 07c	3h:			
_	call sub 07c7h	;07c3	cd c7 07 ;	
	ret nc -	;07c6	d0 ;	
sub 07c	7h:			
_	ld a,016h	;07c7	3e 16 ;	
107c9h:				
	dec a	;07c9	3d ;	
	jr nz,107c9h	;07ca	20 fd ;	
107cch:				
	and a	;07cc	a7 ;	
107cdh:				
	inc b	;07cd	04 ;	
	ret z	;07ce	c8 ;	
	ld a,07fh	;07cf	3e 7f ;	
	in a.(Ofeh)	;07d1	db fe ;	
	rra	;07d3	1f ;	
	ret nc	:07d4	, d0 ;	
	xor c	:07d5	a9 :	
	and 020h	:0746	e6 20 ·	
	ir z.107cdh	:0748	28 f3 ,	
	ld a.c	:07da	79 ,	
	cnl	• 07db	2f ,	
	ld c a	• 07dc	4f ,	
	and 007h	:0744	e6 07 ,	
	or 008h	,074f	f6 08 .	
	out (Ofeb) o	.07c1	13 fo ;	
	sof	·07=3	37 ,	
	rot	,0701	ся <b>;</b>	
	ir no ¢-26	,0764	30 64 -	
	J± 110,9 [−] 20 ld = 0.56b	,0707	30 06 -	
	10 a, 0001	; u/e/	Je CU ;	
	in ng 107	;u/e9	20 ou ;	
	jr nc,10/cch	; ∪ /ea	JU EU ;	
	LIIC II	; U/ec	24 ;	
1070fb-	د⊥−ډ,∠۱۱ ⊥ر	; u /ea	20 II ;	
TO VETII:	ld b Oceb	•07of	06 09 -	
	apli aub 07a75	,07£1	od c7 07 ;	
	caii sub U/C/N	; U / I I	20 JE	
	c	/	- U U C - :	
	jr nc,\$-41	;0714	70	
	jr nc,\$-41 ld a,b	;0714 ;07f6	78	
	jr nc,\$-41 ld a,b cp 0d4h	;0714 ;07f6 ;07f7	78 fe d4 ;	
	<pre>jr nc, \$-41 ld a,b cp 0d4h jr nc, 107efh</pre>	;0714 ;07f6 ;07f7 ;07f9	78 fe d4 ; 30 f4 ;	
	jr nc,\$-41 ld a,b cp 0d4h jr nc,107efh call sub_07c7h	;0714 ;07f6 ;07f7 ;07f9 ;07fb	78 fe d4 ; 30 f4 ; cd c7 07 ;	
	jr nc, \$-41 ld a,b cp 0d4h jr nc,107efh call sub_07c7h ret nc	;0714 ;07f6 ;07f7 ;07f9 ;07fb ;07fb	78 fe d4 ; 30 f4 ; d0 ; 70 ;	
	<pre>jr nc,\$-41 ld a,b cp 0d4h jr nc,107efh call sub_07c7h ret nc ld a,c</pre>	;0714 ;07f6 ;07f7 ;07f9 ;07fb ;07fb ;07fe	78       fe d4       30 f4       ; cd c7 07       d0       ; 79	
	<pre>jr nc,\$-41 ld a,b cp 0d4h jr nc,107efh call sub_07c7h ret nc ld a,c</pre>	;0714 ;07f6 ;07f7 ;07f9 ;07fb ;07fb ;07ff	78 fe d4 ; 30 f4 ; cd c7 07 ; d0 ; 79 ;	

## Code 2. CoBra Logo Code