

# Lab Report #7

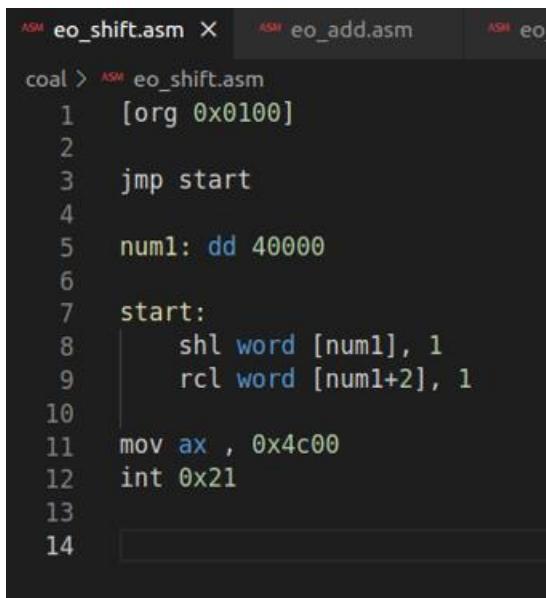
## Saad Ahmad

### (20P-0051)

#### EXTENDED OPERATIONS:

##### 1. Extended Shifting:

###### Code:



```
ASM eo_shift.asm X ASM eo_add.asm ASM eo_
coal > ASM eo_shift.asm
1 [org 0x0100]
2
3 jmp start
4
5 num1: dd 40000
6
7 start:
8     shl word [num1], 1
9     rcl word [num1+2], 1
10
11 mov ax , 0x4c00
12 int 0x21
13
14
```

## Output:

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0100 Stack +0 0000 Flags 7202	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 0014 BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0
DX 0000 SP FFFE SS 19F5 FS 19F5	

```

CMD > [1] 0 1 2 3 4 5 6 7
DS:0000 CD 20 FF 9F 00 EA F0 FE
DS:0008 AD DE 1B 05 C5 06 00 00
DS:0010 18 01 10 01 18 01 92 01
DS:0018 01 01 01 00 02 FF FF FF
DS:0020 FF FF FF FF FF FF FF FF
DS:0028 FF FF FF FF EB 19 C0 11
DS:0030 A2 01 14 00 18 00 F5 19
DS:0038 FF FF FF FF 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00
DS:0048 00 00 00 00 00 00 00 00

[2] 0 1 2 3 4 5 6 7 8 9 A B C D E F = f.Ω≡≡ i | .+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF
DS:0020 FF FF
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

```

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0107 Stack +0 0000 Flags 7200	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 0014 BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0
DX 0000 SP FFFE SS 19F5 FS 19F5	

```

CMD > [1] 0 1 2 3 4 5 6 7
DS:0000 CD 20 FF 9F 00 EA F0 FE
DS:0008 AD DE 1B 05 C5 06 00 00
DS:0010 18 01 10 01 18 01 92 01
DS:0018 01 01 01 00 02 FF FF FF
DS:0020 FF FF FF FF FF FF FF FF
DS:0028 FF FF FF FF EB 19 C0 11
DS:0030 A2 01 14 00 18 00 F5 19
DS:0038 FF FF FF FF 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00
DS:0048 00 00 00 00 00 00 00 00

[2] 0 1 2 3 4 5 6 7 8 9 A B C D E F = f.Ω≡≡ i | .+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF
DS:0020 FF FF
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

```

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 010B Stack +0 0000 Flags 7A11	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 0014 BP 0000 ES 19F5 HS 19F5	+6 EA00 1 0 1 0 0 1 0 1
DX 0000 SP FFFE SS 19F5 FS 19F5	

CMD >		0000	1 0 1 2 3 4 5 6 7
0107 D1260301	SHL	W/[0103],1	DS:0000 CD 20 FF 9F 00 EA F0 FE
<b>010B D1160501</b>	<b>RCL</b>	<b>W/[0105],1</b>	DS:0008 AD DE 1B 05 C5 06 00 00
010F B8004C	MOV	AX,4C00	DS:0010 18 01 10 01 18 01 92 01
0112 CD21	INT	21	DS:0018 01 01 01 00 02 FF FF FF
0114 31D2	XOR	DX,DX	DS:0020 FF FF FF FF FF FF FF FF
0116 31C0	XOR	AX,AX	DS:0028 FF FF FF EB 19 C0 11
0118 8956E4	MOV	[BP-1C],DX	DS:0030 A2 01 14 00 18 00 F5 19
011B 8946E6	MOV	[BP-1A],AX	DS:0038 FF FF FF FF 00 00 00 00
011E C746F60000	MOV	[BP-0A],0000	DS:0040 05 00 00 00 00 00 00 00
			DS:0048 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Q≡# i..+... .....ft. .... δ.L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF EB 19 C0 11	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step | 2 ProcStep | 3 Retrieve | 4 Help ON | 5 BRK Menu | 6 | 7 up | 8 dn | 9 le | 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 010F Stack +0 0000 Flags 7210	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 0014 BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 1 0 0
DX 0000 SP FFFE SS 19F5 FS 19F5	

CMD >		0000	0 1 2 3 4 5 6 7
010B D1160501	RCL	W/[0105],1	DS:0000 CD 20 FF 9F 00 EA F0 FE
<b>010F B8004C</b>	<b>MOV</b>	<b>AX,4C00</b>	DS:0008 AD DE 1B 05 C5 06 00 00
0112 CD21	INT	21	DS:0010 18 01 10 01 18 01 92 01
0114 31D2	XOR	DX,DX	DS:0018 01 01 01 00 02 FF FF FF
0116 31C0	XOR	AX,AX	DS:0020 FF FF FF FF FF FF FF FF
0118 8956E4	MOV	[BP-1C],DX	DS:0028 FF FF FF EB 19 C0 11
011B 8946E6	MOV	[BP-1A],AX	DS:0030 A2 01 14 00 18 00 F5 19
011E C746F60000	MOV	[BP-0A],0000	DS:0038 FF FF FF FF 00 00 00 00
0123 8B46F6	MOV	AX,[BP-0A]	DS:0040 05 00 00 00 00 00 00 00
			DS:0048 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Q≡# i..+... .....ft. .... δ.L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF EB 19 C0 11	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step | 2 ProcStep | 3 Retrieve | 4 Help ON | 5 BRK Menu | 6 | 7 up | 8 dn | 9 le | 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 4C00 SI 0000 CS 19F5 IP 0112	Stack +0 0000 Flags 7210
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 0014 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 0 0

CMD >	
010F B8004C MOV AX,4C00	<b>1</b> 0 1 2 3 4 5 6 7
<b>0112 CD21 INT 21</b>	DS:0000 CD 20 FF 9F 00 EA F0 FE
0114 31D2 XOR DX,DX	DS:0008 AD DE 1B 05 C5 06 00 00
0116 31C0 XOR AX,AX	DS:0010 18 01 10 01 18 01 92 01
0118 8956E4 MOV [BP-1C],DX	DS:0018 01 01 01 00 02 FF FF FF
011B 8946E6 MOU [BP-1A],AX	DS:0020 FF FF FF FF EB 19 C0 11
011E C746F60000 MOU [BP-0A],0000	DS:0028 FF FF FF FF EB 19 C0 11
0123 8B46F6 MOU AX,[BP-0A]	DS:0030 A2 01 14 00 18 00 F5 19
0126 D1E0 SHL AX,1	DS:0038 FF FF FF 00 00 00 00 00
2 0 1 2 3 4 5 6 7 8 9 A B C D E F	DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	= f.Ω≡■ i. .+...
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....fl. ....
DS:0020 FF FF FF FF FF FF FF FF EB 19 C0 11	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 4000 SI 0000 CS F000 IP 14A0	Stack +0 42BD Flags 7010
BX 0000 DI 0000 DS 19F5	+2 06C5
CX 0014 BP 0000 ES 19F5 HS 19F5	+4 7010 OF DF IF SF ZF AF PF CF
DX 0000 SP FFFZ SS 19F5 FS 19F5	+6 0114 0 0 0 0 0 0 1 0 0

CMD >	
0112 CD21 INT 21	<b>1</b> 0 1 2 3 4 5 6 7
<b>14A0 FB STI</b>	DS:0000 CD 20 FF 9F 00 EA F0 FE
14A1 FE DB FE	DS:0008 AD DE 1B 05 C5 06 00 00
14A2 3825 CMP [DI],AH	DS:0010 18 01 10 01 18 01 92 01
14A4 00CF ADD BH,CL	DS:0018 01 01 01 00 02 FF FF FF
14A6 CB RET Far	DS:0020 FF FF FF FF FF FF FF FF
14A7 51 PUSH CX	DS:0028 FF FF FF EB 19 C0 11
14A8 B94001 MOU CX,0140	DS:0030 A2 01 14 00 18 00 F5 19
14AB E2FE LOOP 14AB	DS:0038 FF FF FF 00 00 00 00 00
2 0 1 2 3 4 5 6 7 8 9 A B C D E F	DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	= f.Ω≡■ i. .+...
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....fl. ....
DS:0020 FF FF FF FF FF FF FF FF EB 19 C0 11	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

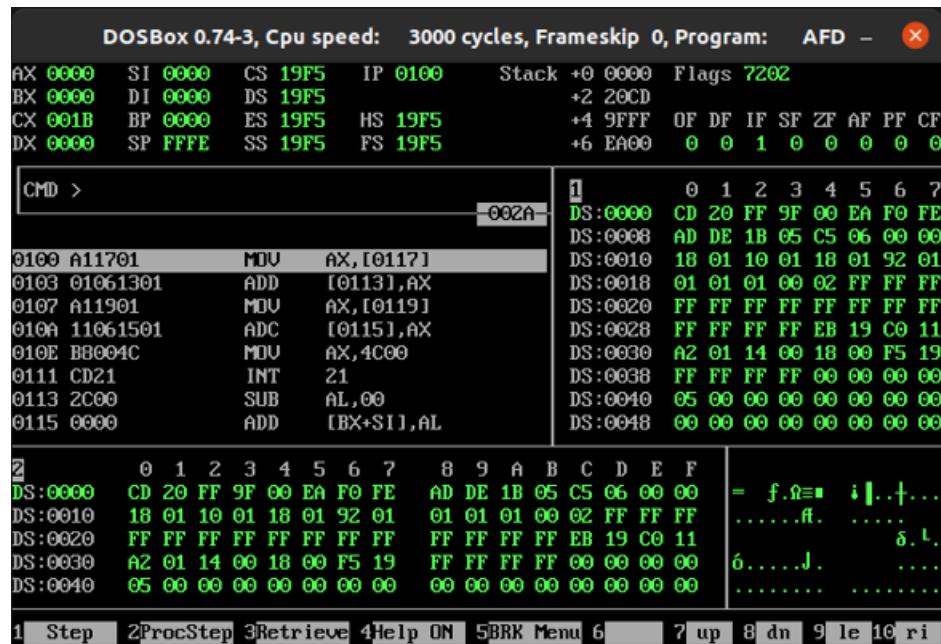
1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

## 2. Extended Addition:

### Code:

```
ASM eo_add.asm X ASM eo_mul.asm  
coal > ASM eo_add.asm  
1 [org 0x0100]  
2  
3 mov ax, [src]  
4 add word [dest], ax  
5 mov ax, [src+2]  
6 adc word [dest+2], ax  
7  
8 mov ax , 0x4c00  
9 int 0x21  
10  
11 dest: dd 0x2C ; 44  
12 src: dd 0x2A ; 42  
13
```

### Output:



DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0100 Stack +0 0000 Flags 7202	BX 0000 DI 0000 DS 19F5 +2 20CD	CX 001B BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 0 0 0 0 0
CMD >			
0100 A11701 MOV AX,[0117]	002A DS:0000 CD 20 FF 9F 00 EA FO FE	1 0 1 2 3 4 5 6 7	
0103 01061301 ADD [0113],AX	DS:0008 AD DE 1B 05 C5 06 00 00	DS:0010 18 01 10 01 18 01 92 01	
0107 A11901 MOV AX,[0119]	DS:0018 01 01 01 00 02 FF FF FF	DS:0020 FF FF FF FF FF FF FF FF	
010A 11061501 ADC [0115],AX	DS:0028 FF FF FF EB 19 C0 11	DS:0028 FF FF FF EB 19 C0 11	
010E B8004C MOV AX,4000	DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF 00 00 00 00 00	
0111 CD21 INT 21	DS:0038 FF FF FF 00 00 00 00 00	DS:0040 05 00 00 00 00 00 00 00	
0113 2C00 SUB AL,00	DS:0040 00 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00	
0115 0000 ADD [BX+SI],AL			
2 0 1 2 3 4 5 6 7 8 9 A B C D E F	DS:0000 CD 20 FF 9F 00 EA FO FE	= f.Ω≡ 0   .+...	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	DS:0010 18 01 10 01 18 01 92 01	.....ft. ....	
DS:0020 FF FF FF FF FF FF FF FF FF EB 19 C0 11	DS:0020 FF FF FF FF FF FF FF FF FF EB 19 C0 11	δ. L.	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	6.....J. ....	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 up 7 dn 8 le 9 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 002A SI 0000 CS 19F5 IP 0103	Stack +0 0000 Flags 7200
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 001B BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0

CMD >		1 0 1 2 3 4 5 6 7
		DS:0000 CD 20 FF 9F 00 EA F0 FE
0100 A11701	MOV AX,[0117]	DS:0008 AD DE 1B 05 C5 06 00 00
0103 01061301	ADD [0113],AX	DS:0010 18 01 10 01 18 01 92 01
0107 A11901	MOV AX,[0119]	DS:0018 01 01 01 00 02 FF FF FF
010A 11061501	ADC [0115],AX	DS:0020 FF FF FF FF FF FF FF FF
010E B8004C	MOV AX,4C00	DS:0028 FF FF FF EB 19 C0 11
0111 CD21	INT 21	DS:0030 A2 01 14 00 18 00 F5 19
0113 2C00	SUB AL,00	DS:0038 FF FF FF 00 00 00 00 00 00
0115 0000	ADD [BX+SI],AL	DS:0040 05 00 00 00 00 00 00 00 00
0117 2A00	SUB AL,[BX+SI]	DS:0048 00 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡ i   .+... .....ft. .... .....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.Ω≡ i   .+...
DS:0010 18 01 10 01 18 01 92 01	.....ft. ....
DS:0020 FF FF FF FF FF FF FF FF	.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19	.....
DS:0040 05 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 002A SI 0000 CS 19F5 IP 0107	Stack +0 0000 Flags 7214
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 001B BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 1 0

CMD >		1 0 1 2 3 4 5 6 7
		DS:0000 CD 20 FF 9F 00 EA F0 FE
0103 01061301	ADD [0113],AX	DS:0008 AD DE 1B 05 C5 06 00 00
0107 A11901	MOV AX,[0119]	DS:0010 18 01 10 01 18 01 92 01
010A 11061501	ADC [0115],AX	DS:0018 01 01 01 00 02 FF FF FF
010E B8004C	MOV AX,4C00	DS:0020 FF FF FF FF FF FF FF
0111 CD21	INT 21	DS:0028 FF FF FF EB 19 C0 11
0113 56	PUSH SI	DS:0030 A2 01 14 00 18 00 F5 19
0114 0000	ADD [BX+SI],AL	DS:0038 FF FF FF 00 00 00 00 00 00
0116 002A	ADD [BP+SI],CH	DS:0040 05 00 00 00 00 00 00 00 00
0118 0000	ADD [BX+SI],AL	DS:0048 00 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡ i   .+... .....ft. .... .....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.Ω≡ i   .+...
DS:0010 18 01 10 01 18 01 92 01	.....ft. ....
DS:0020 FF FF FF FF FF FF FF	.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19	.....
DS:0040 05 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - ×

AX 0000 SI 0000 CS 19F5 IP 010A	Stack +0 0000 Flags 7214
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 001B BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 1 1 0

CMD > [ ]	
0000	
0107 A11901 MOV AX,[0119]	DS:0000 CD 20 FF 9F 00 EA F0 FE
010A 11061501 ADC [0115],AX	DS:0008 AD DE 1B 05 C5 06 00 00
010E B8004C MOV AX,4C00	DS:0010 18 01 10 01 18 01 92 01
0111 CD21 INT 21	DS:0018 01 01 01 00 02 FF FF FF
0113 56 PUSH SI	DS:0020 FF FF FF FF FF FF FF FF
0114 0000 ADD [BX+SI],AL	DS:0028 FF FF FF EB 19 C0 11
0116 002A ADD [BP+SI],CH	DS:0030 A2 01 14 00 18 00 F5 19
0118 0000 ADD [BX+SI],AL	DS:0038 FF FF FF 00 00 00 00 00
011A 008946E6 ADD [E646+BX+DI],CL	DS:0040 05 00 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	= f. R≡■ i   .+...
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....fl. ....
DS:0020 FF	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - ×

AX 0000 SI 0000 CS 19F5 IP 010E	Stack +0 0000 Flags 7244
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 001B BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 1 0 1 0

CMD > [ ]	
0000	
010A 11061501 ADC [0115],AX	DS:0000 CD 20 FF 9F 00 EA F0 FE
010E B8004C MOV AX,4C00	DS:0008 AD DE 1B 05 C5 06 00 00
0111 CD21 INT 21	DS:0010 18 01 10 01 18 01 92 01
0113 56 PUSH SI	DS:0018 01 01 01 00 02 FF FF FF
0114 0000 ADD [BX+SI],AL	DS:0020 FF FF FF FF EB 19 C0 11
0116 002A ADD [BP+SI],CH	DS:0028 FF FF FF 00 00 00 00 00
0118 0000 ADD [BX+SI],AL	DS:0030 A2 01 14 00 18 00 F5 19
011A 008946E6 ADD [E646+BX+DI],CL	DS:0038 FF FF FF FF 00 00 00 00
011E C746F60000 MOV [BP-0A],0000	DS:0040 05 00 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	= f. R≡■ i   .+...
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....fl. ....
DS:0020 FF	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 4C00 SI 0000 CS 19F5 IP 0111 Stack +0 0000 Flags 7244	BX 0000 DI 0000 DS 19F5 +2 Z0CD
CX 001B BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 0 1 0

CMD >	<b>1</b> 0 1 2 3 4 5 6 7
010E B8004C MOV AX,4C00	DS:0000 CD 20 FF 9F 00 EA F0 FE
<b>0111 CD21 INT 21</b>	DS:0008 AD DE 1B 05 C5 06 00 00
0113 56 PUSH SI	DS:0010 18 01 10 01 18 01 92 01
0114 0000 ADD [BX+SI],AL	DS:0018 01 01 01 00 02 FF FF FF
0116 002A ADD [BP+SI],CH	DS:0020 FF FF FF FF FF EB 19 C0 11
0118 0000 ADD [BX+SI],AL	DS:0028 FF FF FF EB 19 C0 11
011A 008946E6 ADD [E646+BX+DI],CL	DS:0030 A2 01 14 00 18 00 F5 19
011E C746F60000 MOV [BP-0A],0000	DS:0038 FF FF FF FF 00 00 00 00
0123 8B46F6 MOV AX,[BP-0A]	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

<b>2</b> 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡■ i   ..+... .....fl. .... δ. L. 6.....J.. .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	DS:0010 18 01 10 01 18 01 92 01
DS:0020 FF FF FF FF FF FF FF FF EB 19 C0 11	DS:0030 A2 01 14 00 18 00 F5 19
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	DS:0040 05 00 00 00 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 4C00 SI 0000 CS F000 IP 14A0 Stack +0 42BD Flags 7044	BX 0000 DI 0000 DS 19F5 +2 06C5
CX 001B BP 0000 ES 19F5 HS 19F5 +4 7044 OF DF IF SF ZF AF PF CF	DX 0000 SP FFF2 SS 19F5 FS 19F5 +6 0113 0 0 0 0 1 0 1 0

CMD > <b>1</b> 0 1 2 3 4 5 6 7	
0111 CD21 INT 21	DS:0000 CD 20 FF 9F 00 EA F0 FE
<b>14A0 FB STI</b>	DS:0008 AD DE 1B 05 C5 06 00 00
14A1 FE DB FE	DS:0010 18 01 10 01 18 01 92 01
14A2 3825 CMP [DI],AH	DS:0018 01 01 01 00 02 FF FF FF
14A4 00CF ADD BH,CL	DS:0020 FF FF FF FF FF FF FF FF
14A6 CB RET Far	DS:0028 FF FF FF FF EB 19 C0 11
14A7 51 PUSH CX	DS:0030 A2 01 14 00 18 00 F5 19
14A8 B94001 MOU CX,0140	DS:0038 FF FF FF FF 00 00 00 00
14AB E2FE LOOP 14AB	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

<b>2</b> 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡■ i   ..+... .....fl. .... δ. L. 6.....J.. .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	DS:0010 18 01 10 01 18 01 92 01
DS:0020 FF FF FF FF FF FF FF FF EB 19 C0 11	DS:0030 A2 01 14 00 18 00 F5 19
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	DS:0040 05 00 00 00 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

### 3. Extended Multiplication:

#### Code:

```
ASM eo_mul.asm ×

coal > ASM eo_mul.asm
1 [org 0x0100]
2
3 jmp start
4
5 multipicand: dd 1300
6 multiplier: dw 500
7 result: dd 0
8
9 start:
10    mov cl , 16
11    mov dx , [multiplier]
12
13 checkbit:
14    shr dx,1
15    jnc skip
16
17    mov ax , [multipicand]
18    add [result] , ax
19    mov ax , [multipicand + 2]
20    adc [result + 2] , ax
21
22 skip:
23    shl word [multipicand] , 1
24    rcl word [multipicand + 2] , 1
25    dec cl
26    jnz checkbit
27
28    mov ax , 0x4c00
29    int 0x21
30
```

## Output:

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0100 Stack +0 0000 Flags 7202	+2 Z0CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 0036 BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0
DX 0000 SP FFFE SS 19F5 FS 19F5	

CMD > [ ]	
0100 E90A00 JMP 010D	
0103 1405 ADC AL,05	
0105 0000 ADD [BX+SI],AL	
0107 F4 HLT	
0108 0100 ADD [BX+SI],AX	
010A 0000 ADD [BX+SI],AL	
010C 00B1106B ADD [8B10+BX+DI],DH	
0110 16 PUSH SS	

1 0 1 2 3 4 5 6 7 8 9 A B C D E F	
DS:0000 CD 20 FF 9F 00 EA F0 FE	= f. R≡■ i   .+...
DS:0010 18 01 10 01 18 01 92 01	.....fl. ....
DS:0020 FF FF FF FF FF FF	FF FF FF EB 19 C0 11
DS:0030 A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 ? up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0100 Stack +0 0000 Flags 7200	+2 Z0CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 0036 BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0
DX 0000 SP FFFE SS 19F5 FS 19F5	

CMD > [ ]	
0100 E90A00 JMP 010D	
010D B110 MDU CL,10	
010F 8B160701 MDU DX,[0107]	
0113 D1EA SHR DX,1	
0115 730E JNC 0125	
0117 A10301 MDU AX,[0103]	
011A 01060901 ADD [0109],AX	
011E A10501 MDU AX,[0105]	
0121 11060B01 ADC [010B],AX	

1 0 1 2 3 4 5 6 7 8 9 A B C D E F	
DS:0000 CD 20 FF 9F 00 EA F0 FE	= f. R≡■ i   .+...
DS:0008 AD DE 1B 05 C5 06 00 00	.....fl. ....
DS:0010 18 01 10 01 18 01 92 01	.....
DS:0018 01 01 01 00 02 FF FF FF	FF FF FF EB 19 C0 11
DS:0020 FF FF FF FF FF FF	FF FF FF FF 00 00 00 00
DS:0030 A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 ? up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 010F Stack +0 0000 Flags 7200	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 0010 BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0
DX 0000 SP FFFE SS 19F5 FS 19F5	

CMD >	
01F4-	
010D B110 MOV CL,10	1 0 1 2 3 4 5 6 7
010F BB160701 MOU DX,[0107]	DS:0000 CD 20 FF 9F 00 EA F0 FE
0113 D1EA SHR DX,1	DS:0008 AD DE 1B 05 C5 06 00 00
0115 730E JNC 0125	DS:0010 18 01 10 01 18 01 92 01
0117 A10301 MOU AX,[0103]	DS:0018 01 01 01 00 02 FF FF FF
011A 01060901 ADD [0109],AX	DS:0020 FF FF FF FF FF FF FF FF
011E A10501 MOU AX,[0105]	DS:0028 FF FF FF EB 19 C0 11
0121 11060B01 ADC [010B],AX	DS:0030 A2 01 14 00 18 00 F5 19
0125 D1260301 SHL W/[0103],1	DS:0038 FF FF FF FF 00 00 00 00
	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i   ..+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....ft. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	δ. L.
DS:0020 FF	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0113 Stack +0 0000 Flags 7200	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 0010 BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0
DX 01F4 SP FFFE SS 19F5 FS 19F5	

CMD >	
0113-	
010F BB160701 MOU DX,[0107]	1 0 1 2 3 4 5 6 7
0113 D1EA SHR DX,1	DS:0000 CD 20 FF 9F 00 EA F0 FE
0115 730E JNC 0125	DS:0008 AD DE 1B 05 C5 06 00 00
0117 A10301 MOU AX,[0103]	DS:0010 18 01 10 01 18 01 92 01
011A 01060901 ADD [0109],AX	DS:0018 01 01 01 00 02 FF FF FF
011E A10501 MOU AX,[0105]	DS:0020 FF FF FF FF FF FF FF FF
0121 11060B01 ADC [010B],AX	DS:0028 FF FF FF EB 19 C0 11
0125 D1260301 SHL W/[0103],1	DS:0030 A2 01 14 00 18 00 F5 19
0129 D1160501 RCL W/[0105],1	DS:0038 FF FF FF FF 00 00 00 00
	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i   ..+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....ft. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	δ. L.
DS:0020 FF	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0115	Stack +0 0000 Flags 7214
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 0010 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 00FA SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 1 1 0

CMD >		1 0 1 2 3 4 5 6 7
0113 D1EA SHR DX,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.Ω≡# i   ..+...
0115 730E JNC 0125	DS:0008 AD DE 1B 05 C5 06 00 00	.....fl. ....
0117 A10301 MOV AX,[0103]	DS:0010 18 01 10 01 18 01 92 01	.....δ. L.
011A 01060901 ADD [0109],AX	DS:0018 01 01 01 00 02 FF FF FF	6.....J. ....
011E A10501 MOV AX,[0105]	DS:0020 FF FF FF FF FF FF FF FF	.....
0121 11060B01 ADC [010B],AX	DS:0028 FF FF FF EB 19 C0 11	.....
0125 D1260301 SHL W,[0103],1	DS:0030 A2 01 14 00 18 00 F5 19	.....
0129 D1160501 RCL W,[0105],1	DS:0038 FF FF FF FF 00 00 00 00	.....
012D FEC9 DEC CL	DS:0040 05 00 00 00 00 00 00 00	.....
	DS:0048 00 00 00 00 00 00 00 00	.....

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡# i   ..+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....fl. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....δ. L.
DS:0020 FF	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0125	Stack +0 0000 Flags 7214
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 0010 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 00FA SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 1 1 0

CMD >		1 0 1 2 3 4 5 6 7
0115 730E JNC 0125	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.Ω≡# i   ..+...
0125 D1260301 SHL W,[0103],1	DS:0008 AD DE 1B 05 C5 06 00 00	.....fl. ....
0129 D1160501 RCL W,[0105],1	DS:0010 18 01 10 01 18 01 92 01	.....δ. L.
012D FEC9 DEC CL	DS:0018 01 01 01 00 02 FF FF FF	6.....J. ....
012F 75E2 JNZ 0113	DS:0020 FF FF FF FF EB 19 C0 11	.....
0131 B8004C MOV AX,4C00	DS:0028 FF FF FF FF EB 19 C0 11	.....
0134 CD21 INT 21	DS:0030 A2 01 14 00 18 00 F5 19	.....
0136 7504 JNZ 013C	DS:0038 FF FF FF FF 00 00 00 00	.....
0138 85C0 TEST AX,AX	DS:0040 05 00 00 00 00 00 00 00	.....
	DS:0048 00 00 00 00 00 00 00 00	.....

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡# i   ..+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....fl. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....δ. L.
DS:0020 FF	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0129	Stack +0 0000 Flags 7214
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 0010 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 00FA SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 1 1 0

CMD >		0000	1	0 1 2 3 4 5 6 7	DS:0000 CD 20 FF 9F 00 EA F0 FE
0125 D1260301	SHL	W/[0103],1	DS:0008 AD DE 1B 05 C5 06 00 00		
<b>0129 D1160501</b>	<b>RCL</b>	<b>W/[0105],1</b>	DS:0010 18 01 10 01 18 01 92 01		
012D FEC9	DEC	CL	DS:0018 01 01 01 00 02 FF FF FF		
012F 75E2	JNZ	0113	DS:0020 FF FF FF FF FF FF FF FF		
0131 B8004C	MOU	AX,4C00	DS:0028 FF FF FF EB 19 C0 11		
0134 CD21	INT	21	DS:0030 A2 01 14 00 18 00 F5 19		
0136 7504	JNZ	013C	DS:0038 FF FF FF FF 00 00 00 00		
0138 85C0	TEST	AX,AX	DS:0040 05 00 00 00 00 00 00 00		
013A 741C	JZ	0158	DS:0048 00 00 00 00 00 00 00 00		

2		0 1 2 3 4 5 6 7	8 9 A B C D E F	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.Q≡# + ..+...
DS:0010	18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF	DS:0018 01 01 01 00 02 FF FF FF	.....ft.	.....
DS:0020	FF FF FF FF FF FF FF	FF FF FF EB 19 C0 11	DS:0028 FF FF FF FF FF FF FF	A. L.	.....J.
DS:0030	A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00	DS:0038 FF FF FF FF 00 00 00 00	6.....J.	.....
DS:0040	05 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00	.....	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 SBRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 012D	Stack +0 0000 Flags 7214
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 0010 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 00FA SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 1 1 0

CMD >		0000	1	0 1 2 3 4 5 6 7	DS:0000 CD 20 FF 9F 00 EA F0 FE
0129 D1160501	RCL	W/[0105],1	DS:0008 AD DE 1B 05 C5 06 00 00		
<b>012D FEC9</b>	<b>DEC</b>	<b>CL</b>	DS:0010 18 01 10 01 18 01 92 01		
012F 75E2	JNZ	0113	DS:0018 01 01 01 00 02 FF FF FF		
0131 B8004C	MOU	AX,4C00	DS:0020 FF FF FF FF FF FF FF		
0134 CD21	INT	21	DS:0028 FF FF FF EB 19 C0 11		
0136 7504	JNZ	013C	DS:0030 A2 01 14 00 18 00 F5 19		
0138 85C0	TEST	AX,AX	DS:0038 FF FF FF FF 00 00 00 00		
013A 741C	JZ	0158	DS:0040 05 00 00 00 00 00 00 00		
013C C746DC0000	MOU	[BP-24],0000	DS:0048 00 00 00 00 00 00 00 00		

2		0 1 2 3 4 5 6 7	8 9 A B C D E F	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.Q≡# + ..+...
DS:0010	18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF	DS:0018 01 01 01 00 02 FF FF FF	.....ft.	.....
DS:0020	FF FF FF FF FF FF FF	FF FF FF EB 19 C0 11	DS:0028 FF FF FF FF FF FF FF	A. L.	.....J.
DS:0030	A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00	DS:0038 FF FF FF FF 00 00 00 00	6.....J.	.....
DS:0040	05 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00	.....	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 SBRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 012F	Stack +0 0000 Flags 7214
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 000F BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 00FA SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 1 1 0

CMD >		1 0 1 2 3 4 5 6 7
012D FEC9 DEC CL	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f. .R≡■ i   .+...
012F 75E2 JNZ 0113	DS:0008 AD DE 1B 05 C5 06 00 00	.....fl. ....
0131 B8004C MOV AX,4C00	DS:0010 18 01 10 01 18 01 92 01	.....S. L.
0134 CD21 INT 21	DS:0018 01 01 01 00 02 FF FF FF	6.....J. ....
0136 7504 JNZ 013C	DS:0020 FF FF FF FF FF FF FF FF	.....
0138 85C0 TEST AX,AX	DS:0028 FF FF FF EB 19 C0 11	
013A 741C JZ 0158	DS:0030 A2 01 14 00 18 00 F5 19	
013C C746DC0000 MOV [IBP-24],0000	DS:0038 FF FF FF FF 00 00 00 00	
0141 8E5EFC MOV DS,[IBP-04]	DS:0040 05 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00	

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f. .R≡■ i   .+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....fl. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....S. L.
DS:0020 FF	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 SBRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0113	Stack +0 0000 Flags 7214
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 000F BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 00FA SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 1 1 0

CMD >		1 0 1 2 3 4 5 6 7
012F 75E2 JNZ 0113	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f. .R≡■ i   .+...
0113 D1E9 SHR DX,1	DS:0008 AD DE 1B 05 C5 06 00 00	.....fl. ....
0115 730E JNC 0125	DS:0010 18 01 10 01 18 01 92 01	.....S. L.
0117 A10301 MOV AX,[0103]	DS:0018 01 01 01 00 02 FF FF FF	6.....J. ....
011A 01060901 ADD [0109],AX	DS:0020 FF FF FF FF FF FF FF FF	.....
011E A10501 MOV AX,[0105]	DS:0028 FF FF FF EB 19 C0 11	
0121 11060B01 ADC [010B],AX	DS:0030 A2 01 14 00 18 00 F5 19	
0125 D1260301 SHL W/[0103],1	DS:0038 FF FF FF FF 00 00 00 00	
0129 D1160501 RCL W/[0105],1	DS:0040 05 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00	

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f. .R≡■ i   .+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....fl. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....S. L.
DS:0020 FF	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 SBRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0115 Stack +0 0000 Flags 7214	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 000F BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 1 1 1 0
DX 007D SP FFFE SS 19F5 FS 19F5	

CMD >		1 0 1 2 3 4 5 6 7
0113 D1EA SHR DX,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	
0115 730E JNC 0125	DS:0008 AD DE 1B 05 C5 06 00 00	
0117 A10301 MOV AX,[0103]	DS:0010 18 01 10 01 18 01 92 01	
011A 01060901 ADD [0109],AX	DS:0018 01 01 01 00 02 FF FF FF	
011E A10501 MOU AX,[0105]	DS:0020 FF FF FF FF FF FF FF FF	
0121 11060B01 ADC [010B],AX	DS:0028 FF FF FF EB 19 C0 11	
0125 D1260301 SHL W[0103],1	DS:0030 A2 01 14 00 18 00 F5 19	
0129 D1160501 RCL W[0105],1	DS:0038 FF FF FF 00 00 00 00 00 00	
012D FEC9 DEC CL	DS:0040 05 00 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00 00	

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡■ i   .+... .....fl. .... .....δ. L. 6.....J.. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF	
DS:0028 FF FF FF EB 19 C0 11 FF FF FF FF 00 00 00 00 00 00	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0125 Stack +0 0000 Flags 7214	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 000F BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 1 1 1 0
DX 007D SP FFFE SS 19F5 FS 19F5	

CMD > 0A28		1 0 1 2 3 4 5 6 7
0115 730E JNC 0125	DS:0000 CD 20 FF 9F 00 EA F0 FE	
0125 D1260301 SHL W[0103],1	DS:0008 AD DE 1B 05 C5 06 00 00	
0129 D1160501 RCL W[0105],1	DS:0010 18 01 10 01 18 01 92 01	
012D FEC9 DEC CL	DS:0018 01 01 01 00 02 FF FF FF	
012F 75E2 JNZ 0113	DS:0020 FF FF FF FF FF FF FF FF	
0131 B8004C MOV AX,4C00	DS:0028 FF FT FF FF EB 19 C0 11	
0134 CD21 INT 21	DS:0030 A2 01 14 00 18 00 F5 19	
0136 7504 JNZ 013C	DS:0038 FF FF FF FF 00 00 00 00 00 00	
0138 85C0 TEST AX,AX	DS:0040 05 00 00 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00 00 00	

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡■ i   .+... .....fl. .... .....δ. L. 6.....J.. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF	
DS:0028 FF FT FF FF EB 19 C0 11 FF FF FF FF 00 00 00 00 00 00	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0129	Stack +0 0000 Flags 7214
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 000F BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 007D SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 1 1 0

CMD >		1 0 1 2 3 4 5 6 7
		DS:0000 CD 20 FF 9F 00 EA F0 FE
0125 D1260301 SHL W[0103],1		DS:0008 AD DE 1B 05 C5 06 00 00
0129 D1160501 RCL W[0105],1		DS:0010 18 01 10 01 18 01 92 01
012D FEC9 DEC CL		DS:0018 01 01 01 00 02 FF FF FF
012F 75E2 JNZ 0113		DS:0020 FF FF FF FF FF FF FF FF
0131 B8004C MOU AX,4C00		DS:0028 FF FF FF EB 19 C0 11
0134 CD21 INT 21		DS:0030 A2 01 14 00 18 00 F5 19
0136 7504 JNZ 013C		DS:0038 FF FF FF FF 00 00 00 00
0138 85C0 TEST AX,AX		DS:0040 05 00 00 00 00 00 00 00
013A 741C JZ 0158		DS:0048 00 00 00 00 00 00 00 00

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f. R≡■ i   .+... .....fl. .... .....J. ....
DS:0000 CD 20 FF 9F 00 EA F0 FE	
DS:0010 18 01 10 01 18 01 92 01	
DS:0020 FF FF FF FF FF FF FF FF	
DS:0030 A2 01 14 00 18 00 F5 19	
DS:0040 05 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 SBRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 012D	Stack +0 0000 Flags 7214
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 000F BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 007D SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 1 1 0

CMD >		1 0 1 2 3 4 5 6 7
		DS:0000 CD 20 FF 9F 00 EA F0 FE
0129 D1160501 RCL W[0105],1		DS:0008 AD DE 1B 05 C5 06 00 00
012D FEC9 DEC CL		DS:0010 18 01 10 01 18 01 92 01
012F 75E2 JNZ 0113		DS:0018 01 01 01 00 02 FF FF FF
0131 B8004C MOU AX,4C00		DS:0020 FF FF FF FF FF FF FF FF
0134 CD21 INT 21		DS:0028 FF FF FF EB 19 C0 11
0136 7504 JNZ 013C		DS:0030 A2 01 14 00 18 00 F5 19
0138 85C0 TEST AX,AX		DS:0038 FF FF FF FF 00 00 00 00
013A 741C JZ 0158		DS:0040 05 00 00 00 00 00 00 00
013C C746DC0000 MOU [BP-24],0000		DS:0048 00 00 00 00 00 00 00 00

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f. R≡■ i   .+... .....fl. .... .....J. ....
DS:0000 CD 20 FF 9F 00 EA F0 FE	
DS:0010 18 01 10 01 18 01 92 01	
DS:0020 FF FF FF FF FF FF FF FF	
DS:0030 A2 01 14 00 18 00 F5 19	
DS:0040 05 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 SBRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 012F	Stack +0 0000 Flags 7200
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 000E BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 007D SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0 0 0 0

CMD > [ ]	
012D FEC9 DEC CL	[ ]
012F 75E2 JNZ 0113	[ ]
0131 B8004C MOV AX,4C00	[ ]
0134 CD21 INT 21	[ ]
0136 7504 JNZ 013C	[ ]
0138 85C0 TEST AX,AX	[ ]
013A 741C JZ 0158	[ ]
013C C746DC0000 MOV [BP-24],0000	[ ]
0141 8E5EFC MOV DS,[BP-04]	[ ]

1 0 1 2 3 4 5 6 7 8 9 A B C D E F	[ ]
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	= f.Ω≡■ i   .+...
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....fl. ....
DS:0020 FF FF FF FF FF FF FF FF EB 19 C0 11	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
DS:0048 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 SBRK Menu 6 [ ] 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0113	Stack +0 0000 Flags 7200
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 000E BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 007D SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0 0 0 0

CMD > [ ]	
012F 75E2 JNZ 0113	[ ]
0113 D1E9 SHR DX,1	[ ]
0115 730E JNC 0125	[ ]
0117 A10301 MOV AX,[0103]	[ ]
011A 01060901 ADD [0109],AX	[ ]
011E A10501 MOV AX,[0105]	[ ]
0121 11060B01 ADC [010B],AX	[ ]
0125 D1260301 SHL W/[0103],1	[ ]
0129 D1160501 RCL W/[0105],1	[ ]

1 0 1 2 3 4 5 6 7 8 9 A B C D E F	[ ]
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	= f.Ω≡■ i   .+...
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....fl. ....
DS:0020 FF FF FF FF FF FF FF FF EB 19 C0 11	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
DS:0048 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 SBRK Menu 6 [ ] 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0115 Stack +0 0000 Flags 7211	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 000E BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 1 0 1
DX 003E SP FFFE SS 19F5 FS 19F5	

CMD >		1 0 1 2 3 4 5 6 7
0113 D1EA SHR DX,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	
0115 730E JNC 0125	DS:0008 AD DE 1B 05 C5 06 00 00	
0117 A10301 MOV AX,[0103]	DS:0010 18 01 10 01 18 01 92 01	
011A 01060901 ADD [0109],AX	DS:0018 01 01 01 00 02 FF FF FF	
011E A10501 MOV AX,[0105]	DS:0020 FF FF FF FF FF FF FF FF	
0121 11060B01 ADC [010B],AX	DS:0028 FF FF FF EB 19 C0 11	
0125 D1260301 SHL W,[0103],1	DS:0030 A2 01 14 00 18 00 F5 19	
0129 D1160501 RCL W,[0105],1	DS:0038 FF FF FF FF 00 00 00 00	
012D FEC9 DEC CL	DS:0040 05 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00	

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ :   .+... .....fl. .... δ. L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF	
DS:0028 FF FF FF EB 19 C0 11 FF FF FF FF 00 00 00 00	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	
DS:0038 FF FF FF FF 00 00 00 00 00 00 00 00 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
DS:0048 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0117 Stack +0 0000 Flags 7211	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 000E BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 1 0 1
DX 003E SP FFFE SS 19F5 FS 19F5	

CMD > 1450		1 0 1 2 3 4 5 6 7
0115 730E JNC 0125	DS:0000 CD 20 FF 9F 00 EA F0 FE	
0117 A10301 MOV AX,[0103]	DS:0008 AD DE 1B 05 C5 06 00 00	
011A 01060901 ADD [0109],AX	DS:0010 18 01 10 01 18 01 92 01	
011E A10501 MOV AX,[0105]	DS:0018 01 01 01 00 02 FF FF FF	
0121 11060B01 ADC [010B],AX	DS:0020 FF FF FF FF FF FF FF FF	
0125 D1260301 SHL W,[0103],1	DS:0028 FF FF FF EB 19 C0 11	
0129 D1160501 RCL W,[0105],1	DS:0030 A2 01 14 00 18 00 F5 19	
012D FEC9 DEC CL	DS:0038 FF FF FF FF 00 00 00 00	
012F 75E2 JNZ 0113	DS:0040 05 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00	

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ :   .+... .....fl. .... δ. L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF	
DS:0028 FF FF FF EB 19 C0 11 FF FF FF FF 00 00 00 00	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	
DS:0038 FF FF FF FF 00 00 00 00 00 00 00 00 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
DS:0048 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 1450 SI 0000 CS 19F5 IP 011A Stack +0 0000 Flags 7211	BX 0000 DI 0000 DS 19F5 +2 20CD	CX 000E BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 003E SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 0 1 0 1
--	---------------------------------	---	---

CMD > 0000	<b>1</b> 0 1 2 3 4 5 6 7
0117 A10301 MOV AX,[0103]	DS:0000 CD 20 FF 9F 00 EA F0 FE
011A 01060901 ADD [0109],AX	DS:0008 AD DE 1B 05 C5 06 00 00
011E A10501 MOV AX,[0105]	DS:0010 18 01 10 01 18 01 92 01
0121 11060B01 ADC [010B],AX	DS:0018 01 01 01 00 02 FF FF FF
0125 D1260301 SHL W,[0103],1	DS:0020 FF FF FF FF FF FF FF FF
0129 D1160501 RCL W,[0105],1	DS:0028 FF FF FF EB 19 C0 11
012D FEC9 DEC CL	DS:0030 A2 01 14 00 18 00 F5 19
012F 75E2 JNZ 0113	DS:0038 FF FF FF 00 00 00 00 00
0131 B8004C MOV AX,4C00	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.R≡# i   .+... .....ft. .... .....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	= f.R≡# i   .+... .....ft. .... .....J. .... .....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....
DS:0020 FF	.....
DS:0028 FF FF FF EB 19 C0 11 FF FF FF FF EB 19 C0 11	.....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....
DS:0038 FF FF FF 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
DS:0048 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 1450 SI 0000 CS 19F5 IP 011E Stack +0 0000 Flags 7204	BX 0000 DI 0000 DS 19F5 +2 20CD	CX 000E BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 003E SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 0 0 1 0 0
--	---------------------------------	---	---

CMD > 0000	<b>1</b> 0 1 2 3 4 5 6 7
011A 01060901 ADD [0109],AX	DS:0000 CD 20 FF 9F 00 EA F0 FE
011E A10501 MOV AX,[0105]	DS:0008 AD DE 1B 05 C5 06 00 00
0121 11060B01 ADC [010B],AX	DS:0010 18 01 10 01 18 01 92 01
0125 D1260301 SHL W,[0103],1	DS:0018 01 01 01 00 02 FF FF FF
0129 D1160501 RCL W,[0105],1	DS:0020 FF FF FF FF FF FF FF FF
012D FEC9 DEC CL	DS:0028 FF FF FF EB 19 C0 11
012F 75E2 JNZ 0113	DS:0030 A2 01 14 00 18 00 F5 19
0131 B8004C MOV AX,4C00	DS:0038 FF FF FF 00 00 00 00 00
0134 CD21 INT 21	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.R≡# i   .+... .....ft. .... .....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	= f.R≡# i   .+... .....ft. .... .....J. .... .....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....
DS:0020 FF	.....
DS:0028 FF FF FF EB 19 C0 11 FF FF FF FF EB 19 C0 11	.....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....
DS:0038 FF FF FF 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
DS:0048 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0121	Stack +0 0000 Flags 7204
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 000E BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 003E SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 1 0

CMD > [ ]		0000
011E A10501	MOV AX,[0105]	DS:0000 CD 20 FF 9F 00 EA F0 FE
<b>0121 11060B01</b>	<b>ADC [010B],AX</b>	DS:0008 AD DE 1B 05 C5 06 00 00
0125 D1260301	SHL W/[0103],1	DS:0010 18 01 10 01 18 01 92 01
0129 D1160501	RCL W/[0105],1	DS:0018 01 01 01 00 02 FF FF FF
012D FEC9	DEC CL	DS:0020 FF FF FF FF FF FF FF FF
012F 75E2	JNZ 0113	DS:0028 FF FF FF EB 19 C0 11
0131 B8004C	MOV AX,4C00	DS:0030 A2 01 14 00 18 00 F5 19
0134 CD21	INT 21	DS:0038 FF FF FF 00 00 00 00 00
0136 7504	JNZ 013C	DS:0040 05 00 00 00 00 00 00 00
		DS:0048 00 00 00 00 00 00 00 00

1 0 1 2 3 4 5 6 7	8 9 A B C D E F	
DS:0000 CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00	= f.Q≡# i ..+...
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF	.....fl. ....
DS:0020 FF FF FF FF FF FF FF	FF FF FF EB 19 C0 11	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....

1 Step 2ProcStep 3Retrieve 4Help ON 5BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0125	Stack +0 0000 Flags 7244
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 000E BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 003E SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 1 0 1 0

CMD > [ ]		-1450
0121 11060B01	ADC [010B],AX	DS:0000 CD 20 FF 9F 00 EA F0 FE
<b>0125 D1260301</b>	<b>SHL W/[0103],1</b>	DS:0008 AD DE 1B 05 C5 06 00 00
0129 D1160501	RCL W/[0105],1	DS:0010 18 01 10 01 18 01 92 01
012D FEC9	DEC CL	DS:0018 01 01 01 00 02 FF FF FF
012F 75E2	JNZ 0113	DS:0020 FF FF FF FF FF FF FF
0131 B8004C	MOV AX,4C00	DS:0028 FF FF FF EB 19 C0 11
0134 CD21	INT 21	DS:0030 A2 01 14 00 18 00 F5 19
0136 7504	JNZ 013C	DS:0038 FF FF FF 00 00 00 00 00
0138 85C0	TEST AX,AX	DS:0040 05 00 00 00 00 00 00 00
		DS:0048 00 00 00 00 00 00 00 00

1 0 1 2 3 4 5 6 7	8 9 A B C D E F	
DS:0000 CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00	= f.Q≡# i ..+...
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF	.....fl. ....
DS:0020 FF FF FF FF FF FF FF	FF FF FF EB 19 C0 11	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....

1 Step 2ProcStep 3Retrieve 4Help ON 5BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - ×

AX 0000	SI 0000	CS 19F5	IP 0129	Stack +0 0000	Flags 7214
BX 0000	DI 0000	DS 19F5		+2 20CD	
CX 000E	BP 0000	ES 19F5	HS 19F5	+4 9FFF	OF DF IF SF ZF AF PF CF
DX 003E	SP FFFE	SS 19F5	FS 19F5	+6 EA00	0 0 1 0 0 1 1 0

CMD > <span style="float: right;">0000</span>				1 0 1 2 3 4 5 6 7
0125 D1260301 SHL W/[0103],1				DS:0000 CD 20 FF 9F 00 EA F0 FE
0129 D1160501 RCL W/[0105],1				DS:0008 AD DE 1B 05 C5 06 00 00
012D FEC9 DEC CL				DS:0010 18 01 10 01 18 01 92 01
012F 75E2 JNZ 0113				DS:0018 01 01 01 00 02 FF FF FF
0131 B8004C MOV AX,4C00				DS:0020 FF FF FF FF FF FF FF FF FF
0134 CD21 INT 21				DS:0028 FF FF FF EB 19 C0 11
0136 7504 JNZ 013C				DS:0030 A2 01 14 00 18 00 F5 19
0138 85C0 TEST AX,AX				DS:0038 FF FF FF FF 00 00 00 00
013A 741C JZ 0158				DS:0040 05 00 00 00 00 00 00 00
				DS:0048 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Q≡# i...+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....fl. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	δ. L.
DS:0020 FF	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - ×

AX 0000	SI 0000	CS 19F5	IP 012D	Stack +0 0000	Flags 7214
BX 0000	DI 0000	DS 19F5		+2 20CD	
CX 000E	BP 0000	ES 19F5	HS 19F5	+4 9FFF	OF DF IF SF ZF AF PF CF
DX 003E	SP FFFE	SS 19F5	FS 19F5	+6 EA00	0 0 1 0 0 1 1 0

CMD > <span style="float: right;">0000</span>				1 0 1 2 3 4 5 6 7
0129 D1160501 RCL W/[0105],1				DS:0000 CD 20 FF 9F 00 EA F0 FE
012D FEC9 DEC CL				DS:0008 AD DE 1B 05 C5 06 00 00
012F 75E2 JNZ 0113				DS:0010 18 01 10 01 18 01 92 01
0131 B8004C MOV AX,4C00				DS:0018 01 01 01 00 02 FF FF FF
0134 CD21 INT 21				DS:0020 FF FF FF FF FF FF FF FF
0136 7504 JNZ 013C				DS:0028 FF FF FF EB 19 C0 11
0138 85C0 TEST AX,AX				DS:0030 A2 01 14 00 18 00 F5 19
013A 741C JZ 0158				DS:0038 FF FF FF FF 00 00 00 00
013C C746DC0000 MOV [BP-24],0000				DS:0040 05 00 00 00 00 00 00 00
				DS:0048 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Q≡# i...+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....fl. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	δ. L.
DS:0020 FF	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 012F	Stack +0 0000 Flags 7200
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 000D BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 003E SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0

CMD > [ ]	
012D FEC9 DEC CL	[ ]
<b>012F 75E2 JNZ 0113</b>	<b>DS:0000 CD 20 FF 9F 00 EA F0 FE</b>
0131 B8004C MOV AX,4C00	DS:0008 AD DE 1B 05 C5 06 00 00
0134 CD21 INT 21	DS:0010 18 01 10 01 18 01 92 01
0136 7504 JNZ 013C	DS:0018 01 01 01 00 02 FF FF FF
0138 85C0 TEST AX,AX	DS:0020 FF FF FF FF FF FF FF FF
013A 741C JZ 0158	DS:0028 FF FF FF EB 19 C0 11
013C C746DC0000 MOV [IBP-24],0000	DS:0030 A2 01 14 00 18 00 F5 19
0141 8E5EFC MOV DS,[IBP-04]	DS:0038 FF FF FF F0 00 00 00 00
	DS:0040 05 00 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00 00

Z 0 1 2 3 4 5 6 7	8 9 A B C D E F	= f. R≡# i   .+...
DS:0000 CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00	.....fl. ....
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF	5. L.
DS:0020 FF FF FF FF FF FF FF	FF FF FF EB 19 C0 11	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 [ ] 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0113	Stack +0 0000 Flags 7200
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 000D BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 003E SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0

CMD > [ ]	
012F 75E2 JNZ 0113	DS:0000 CD 20 FF 9F 00 EA F0 FE
<b>0113 D1EA SHR DX,1</b>	DS:0008 AD DE 1B 05 C5 06 00 00
0115 730E JNC 0125	DS:0010 18 01 10 01 18 01 92 01
0117 A10301 MOV AX,[0103]	DS:0018 01 01 01 00 02 FF FF FF
011A 01060901 ADD [0109],AX	DS:0020 FF FF FF FF FF FF FF
011E A10501 MOV AX,[0105]	DS:0028 FF FF FF EB 19 C0 11
0121 11060B01 ADC [0108],AX	DS:0030 A2 01 14 00 18 00 F5 19
0125 D1260301 SHL W/[0103],1	DS:0038 FF FF FF F0 00 00 00
0129 D1160501 RCL W/[0105],1	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

Z 0 1 2 3 4 5 6 7	8 9 A B C D E F	= f. R≡# i   .+...
DS:0000 CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00	.....fl. ....
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF	5. L.
DS:0020 FF FF FF FF FF FF FF	FF FF FF EB 19 C0 11	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 [ ] 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0115	Stack +0 0000 Flags 7210
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 000D BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 001F SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 0 0

CMD > [ ]		1 0 1 2 3 4 5 6 7
0113 D1EA SHR DX,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.R=■ i   .+...
0115 730E JNC 0125	DS:0008 AD DE 1B 05 C5 06 00 00	.....fl. ....
0117 A10301 MOV AX,[0103]	DS:0010 18 01 10 01 18 01 92 01	.....
011A 01060901 ADD [0109],AX	DS:0018 01 01 01 00 02 FF FF FF	δ. L.
011E A10501 MOV AX,[0105]	DS:0020 FF FF FF FF FF FF FF FF	.....
0121 11060B01 ADC [010B],AX	DS:0028 FF FF FF EB 19 C0 11	.....
0125 D1260301 SHL W,[0103],1	DS:0030 A2 01 14 00 18 00 F5 19	6.....J. ....
0129 D1160501 RCL W,[0105],1	DS:0038 FF FF FF FF 00 00 00 00	.....
012D FEC9 DEC CL	DS:0040 05 00 00 00 00 00 00 00	.....
	DS:0048 00 00 00 00 00 00 00 00	.....

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.R=■ i   .+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....fl. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....
DS:0020 FF EB 19 C0 11	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0125	Stack +0 0000 Flags 7210
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 000D BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 001F SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 0 0

CMD > [ ]		1 0 1 2 3 4 5 6 7
0115 730E JNC 0125	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.R=■ i   .+...
0125 D1260301 SHL W,[0103],1	DS:0008 AD DE 1B 05 C5 06 00 00	.....fl. ....
0129 D1160501 RCL W,[0105],1	DS:0010 18 01 10 01 18 01 92 01	.....
012D FEC9 DEC CL	DS:0018 01 01 01 00 02 FF FF FF	.....
012F 75E2 JNZ 0113	DS:0020 FF FF FF FF FF FF FF FF	.....
0131 B8004C MOV AX,4C00	DS:0028 FF FF FF EB 19 C0 11	δ. L.
0134 CD21 INT 21	DS:0030 A2 01 14 00 18 00 F5 19	.....
0136 7504 JNZ 013C	DS:0038 FF FF FF FF 00 00 00 00	.....
0138 85C0 TEST AX,AX	DS:0040 05 00 00 00 00 00 00 00	.....
	DS:0048 00 00 00 00 00 00 00 00	.....

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.R=■ i   .+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....fl. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....
DS:0020 FF EB 19 C0 11	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0129 Stack +0 0000 Flags 7210	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 000D BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 1 0 0
DX 001F SP FFFE SS 19F5 FS 19F5	

CMD >	1 0 1 2 3 4 5 6 7
0125 D1260301 SHL W/[0103],1	DS:0000 CD 20 FF 9F 00 EA F0 FE
0129 D1160501 RCL W/[0105],1	DS:0008 AD DE 1B 05 C5 06 00 00
012D FEC9 DEC CL	DS:0010 18 01 10 01 18 01 92 01
012F 75E2 JNZ 0113	DS:0018 01 01 01 00 02 FF FF FF
0131 B8004C MOU AX,4C00	DS:0020 FF FF FF FF FF FF FF FF
0134 CD21 INT 21	DS:0028 FF FF FF EB 19 C0 11
0136 7504 JNZ 013C	DS:0030 A2 01 14 00 18 00 F5 19
0138 85C0 TEST AX,AX	DS:0038 FF FF FF FF 00 00 00 00
013A 741C JZ 0158	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i   .+... .....fl. .... δ. L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	= f.Ω≡≡ i   .+...
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....fl. ....
DS:0020 FF	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 SBRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 012D Stack +0 0000 Flags 7210	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 000D BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 1 0 0
DX 001F SP FFFE SS 19F5 FS 19F5	

CMD >	1 0 1 2 3 4 5 6 7
0129 D1160501 RCL W/[0105],1	DS:0000 CD 20 FF 9F 00 EA F0 FE
012D FEC9 DEC CL	DS:0008 AD DE 1B 05 C5 06 00 00
012F 75E2 JNZ 0113	DS:0010 18 01 10 01 18 01 92 01
0131 B8004C MOU AX,4C00	DS:0018 01 01 01 00 02 FF FF FF
0134 CD21 INT 21	DS:0020 FF FF FF FF FF FF FF FF
0136 7504 JNZ 013C	DS:0028 FF FF FF EB 19 C0 11
0138 85C0 TEST AX,AX	DS:0030 A2 01 14 00 18 00 F5 19
013A 741C JZ 0158	DS:0038 FF FF FF FF 00 00 00 00
013C C746DC0000 MOU [BP-24],0000	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i   .+... .....fl. .... δ. L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	= f.Ω≡≡ i   .+...
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....fl. ....
DS:0020 FF	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 SBRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000	SI 0000	CS 19F5	IP 012F	Stack +0 0000	Flags 7204
BX 0000	DI 0000	DS 19F5		+2 20CD	
CX 000C	BP 0000	ES 19F5	HS 19F5	+4 9FFF	OF DF IF SF ZF AF PF CF
DX 001F	SP FFFE	SS 19F5	FS 19F5	+6 EA00	0 0 1 0 0 0 1 0

```
CMD >
012D FEC9      DEC CL
012F 75E2      JNZ 0113
0131 B8004C      MOV AX,4C00
0134 CD21      INT 21
0136 7504      JNZ 013C
0138 85C0      TEST AX,AX
013A 741C      JZ 015B
013C C746DC0000      MOV [BP-24],0000
0141 8E5EFC      MOV DS,[BP-04]

```

I	0	1	2	3	4	5	6	7
DS:0000	CD	Z0	FF	9F	00	EA	F0	FE
DS:0008	AD	DE	1B	05	C5	06	00	00
DS:0010	18	01	10	01	18	01	92	01
DS:0018	01	01	01	00	02	FF	FF	FF
DS:0020	FF							
DS:0028	FF	FF	FF	EB	19	C0	11	
DS:0030	A2	01	14	00	18	00	F5	19
DS:0038	FF	FF	FF	00	00	00	00	00
DS:0040	05	00	00	00	00	00	00	00
DS:0048	00	00	00	00	00	00	00	00

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F = f.R≡# i .+...  
 DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00 .....#.  
 DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF .....δ. L.  
 DS:0020 FF FF FF FF FF FF FF FF EB 19 C0 11 FF FF FF FF 00 00 00 00 .....J. ....  
 DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00 .....  
 DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....

1 Step | 2 ProcStep | 3 Retrieve | 4 Help ON | 5 BRK Menu 6 | 7 up | 8 dn | 9 le | 10 ri

## BITWISE LOGICAL OPERATIONS:

### 1. AND operation:

#### Code:

```
ASM and.asm  X
coal > ASM and.asm
1    [org 0x0100]
2
3    mov ax , 10
4    mov bx , 5
5    and ax , bx
6
7    mov ax , 0x4c00
8    int 0x21
9    |
```

#### Output:

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000	SI 0000	CS 19F5	IP 0100	Stack +0 0000	Flags 7202
BX 0000	DI 0000	DS 19F5		+2 20CD	
CX 000D	BP 0000	ES 19F5	HS 19F5	+4 9FFF	OF DF IF SF ZF AF PF CF
DX 0000	SP FFFE	SS 19F5	FS 19F5	+6 EA00	0 0 1 0 0 0 0 0 0

CMD >		1	0	1	2	3	4	5	6	7
0100 B80A00	MOV AX,000A	DS:0000	CD 20 FF 9F 00 EA F0 FE							
0103 BB0500	MOV BX,0005	DS:0008	AD DE 1B 05 C5 06 00 00							
0106 21D8	AND AX,BX	DS:0010	18 01 10 01 18 01 92 01							
0108 B8004C	MOV AX,4C00	DS:0018	01 01 01 00 02 FF FF FF							
010B CD21	INT 21	DS:0020	FF FF FF FF FF FF FF FF							
010D C3	RET	DS:0028	FF FF FF EB 19 C0 11							
010E 89D0	MOV AX,DX	DS:0030	A2 01 14 00 18 00 F5 19							
0110 89DA	MOV DX,BX	DS:0038	FF FF FF FF 00 00 00 00							
		DS:0040	05 00 00 00 00 00 00 00							
		DS:0048	00 00 00 00 00 00 00 00							

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 000A	SI 0000	CS 19F5	IP 0103	Stack +0 0000	Flags 7200
BX 0000	DI 0000	DS 19F5		+2 20CD	
CX 000D	BP 0000	ES 19F5	HS 19F5	+4 9FFF	OF DF IF SF ZF AF PF CF
DX 0000	SP FFFE	SS 19F5	FS 19F5	+6 EA00	0 0 1 0 0 0 0 0 0

CMD >■		1	0	1	2	3	4	5	6	7
0100 B80A00	MOV AX,000A	DS:0000	CD 20 FF 9F 00 EA F0 FE							
0103 BB0500	MOV BX,0005	DS:0008	AD DE 1B 05 C5 06 00 00							
0106 21D8	AND AX,BX	DS:0010	18 01 10 01 18 01 92 01							
0108 B8004C	MOV AX,4C00	DS:0018	01 01 01 00 02 FF FF FF							
010B CD21	INT 21	DS:0020	FF FF FF FF FF FF FF FF							
010D C3	RET	DS:0028	FF FF FF EB 19 C0 11							
010E 89D0	MOV AX,DX	DS:0030	A2 01 14 00 18 00 F5 19							
0110 89DA	MOV DX,BX	DS:0038	FF FF FF FF 00 00 00 00							
0112 EB04	JMP 0118	DS:0040	05 00 00 00 00 00 00 00							
		DS:0048	00 00 00 00 00 00 00 00							

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 000A SI 0000 CS 19F5 IP 0106	Stack +0 0000 Flags 7200
BX 0005 DI 0000 DS 19F5	+2 20CD
CX 000D BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0

CMD > [ ]	
0103 BB0500	MOV BX,0005
0106 21D8	<b>AND AX,BX</b>
0108 B8004C	MOV AX,4000
010B CD21	INT 21
010D C3	RET
010E 89D0	MOV AX,DX
0110 89DA	MOV DX,BX
0112 EB04	JMP 0118
0114 31D2	XOR DX,DX

1	0 1 2 3 4 5 6 7
DS:0000	CD 20 FF 9F 00 EA F0 FE
DS:0008	AD DE 1B 05 C5 06 00 00
DS:0010	18 01 10 01 18 01 92 01
DS:0018	01 01 01 00 02 FF FF FF
DS:0020	FF FF FF FF FF FF FF FF
DS:0028	FF FF FF FF EB 19 C0 11
DS:0030	A2 01 14 00 18 00 F5 19
DS:0038	FF FF FF FF 00 00 00 00
DS:0040	05 00 00 00 00 00 00 00
DS:0048	00 00 00 00 00 00 00 00

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0108	Stack +0 0000 Flags 7244
BX 0005 DI 0000 DS 19F5	+2 20CD
CX 000D BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 1 0 1 0

CMD > [ ]	
0106 21D8	AND AX,BX
0108 B8004C	<b>MOV AX,4000</b>
010B CD21	INT 21
010D C3	RET
010E 89D0	MOV AX,DX
0110 89DA	MOV DX,BX
0112 EB04	JMP 0118
0114 31D2	XOR DX,DX
0116 31C0	XOR AX,AX

1	0 1 2 3 4 5 6 7
DS:0000	CD 20 FF 9F 00 EA F0 FE
DS:0008	AD DE 1B 05 C5 06 00 00
DS:0010	18 01 10 01 18 01 92 01
DS:0018	01 01 01 00 02 FF FF FF
DS:0020	FF FF FF FF FF FF FF FF
DS:0028	FF FF FF FF EB 19 C0 11
DS:0030	A2 01 14 00 18 00 F5 19
DS:0038	FF FF FF FF 00 00 00 00
DS:0040	05 00 00 00 00 00 00 00
DS:0048	00 00 00 00 00 00 00 00

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 4C00 SI 0000 CS 19F5 IP 010B	Stack +0 0000 Flags 7244
BX 0005 DI 0000 DS 19F5	+2 20CD
CX 000D BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 1 0 1 0

CMD > [ ]	
0108 B8004C	MOV AX,4000
010B CD21	<b>INT 21</b>
010D C3	RET
010E 89D0	MOV AX,DX
0110 89DA	MOV DX,BX
0112 EB04	JMP 0118
0114 31D2	XOR DX,DX
0116 31C0	XOR AX,AX
0118 8956E4	MOV [BP-1C],DX

1	0 1 2 3 4 5 6 7
DS:0000	CD 20 FF 9F 00 EA F0 FE
DS:0008	AD DE 1B 05 C5 06 00 00
DS:0010	18 01 10 01 18 01 92 01
DS:0018	01 01 01 00 02 FF FF FF
DS:0020	FF FF FF FF FF FF FF FF
DS:0028	FF FF FF FF EB 19 C0 11
DS:0030	A2 01 14 00 18 00 F5 19
DS:0038	FF FF FF FF 00 00 00 00
DS:0040	05 00 00 00 00 00 00 00
DS:0048	00 00 00 00 00 00 00 00

## 2. OR operation:

### Code:

```
ASM or.asm  X  
coal > ASM or.asm  
1  [org 0x0100]  
2  
3  mov ax , 10  
4  mov bx , 5  
5  or ax , bx  
6  
7  mov ax , 0x4c00  
8  int 0x21  
9  |
```

### Output:

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0100 Stack +0 0000 Flags 7202	BX 0000 DI 0000 DS 19F5 +2 20CD	CX 000D BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 0 0 0 0 0
CMD >			
0100 B80A00 MOV AX,000A	0103 BB0500 MOV BX,0005	0106 09D8 OR AX,BX	0108 B8004C MOV AX,4C00
010B CD21 INT 21	010D C3 RET	010E 89D0 MOV AX,DX	0110 89DA MOV DX,BX
1 0 1 2 3 4 5 6 7	8 9 A B C D E F	DS:0000 CD 20 FF 9F 00 EA F0 FE	DS:0008 AD DE 1B 05 C5 06 00 00
DS:0010 18 01 10 01 18 01 92 01	DS:0018 01 01 01 00 02 FF FF FF	DS:0020 FF FF FF FF FF EB 19 C0 11	DS:0028 FF FF FF EB 19 C0 11
DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF FF 00 00 00 00	DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF FF 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00	DS:0040 05 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 000A	SI 0000	CS 19F5	IP 0106	Stack +0 0000	Flags 7200
BX 0005	DI 0000	DS 19F5		+2 20CD	
CX 000D	BP 0000	ES 19F5	HS 19F5	+4 9FFF	OF DF IF SF ZF AF PF CF
DX 0000	SP FFFE	SS 19F5	FS 19F5	+6 EA00	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

CMD >	1 0 1 2 3 4 5 6 7 DS:0000 CD 20 FF 9F 00 EA F0 FE DS:0008 AD DE 1B 05 C5 06 00 00 DS:0010 18 01 10 01 18 01 92 01 DS:0018 01 01 01 00 02 FF FF FF DS:0020 FF FF FF FF EB 19 C0 11 DS:0028 FF FF FF FF EB 19 C0 11 DS:0030 A2 01 14 00 18 00 F5 19 DS:0038 FF FF FF FF 00 00 00 00 DS:0040 05 00 00 00 00 00 00 00 DS:0048 00 00 00 00 00 00 00 00
0103 BB0500 MOV BX,0005 0105 C9D8 OR AX,BX 0106 B8004C MOV AX,4C00 010B CD21 INT 21 010D C3 RET 010E 89D0 MOV AX,DX 0110 89DA MOV DX,BX 0112 EB04 JMP 0118 0114 31D2 XOR DX,DX	2 0 1 2 3 4 5 6 7 8 9 A B C D E F DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00 DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF DS:0020 FF FF FF FF FF FF FF FF EB 19 C0 11 DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00 DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 = f.Ω≡≡ i   .+... .....ft. .... .....δ. L. 6.....J. .... .....

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - ×

AX 000F SI 0000 CS 19F5 IP 0108	Stack +0 0000 Flags 7204
BX 0005 DI 0000 DS 19F5	+2 20CD
CX 000D BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 1 0

CMD > [ ]	
0106 09D8 OR AX,BX	<b>1</b> 0 1 2 3 4 5 6 7
0108 B8004C MOV AX,4C00	DS:0000 CD 20 FF 9F 00 EA F0 FE
010B CD21 INT 21	DS:0008 AD DE 1B 05 C5 06 00 00
010D C3 RET	DS:0010 18 01 10 01 18 01 92 01
010E 89D0 MOV AX,DX	DS:0018 01 01 01 00 02 FF FF FF
0110 89DA MOV DX,BX	DS:0020 FF FF FF FF FF FF FF FF
0112 EB04 JMP 0118	DS:0028 FF FF FF EB 19 C0 11
0114 31D2 XOR DX,DX	DS:0030 A2 01 14 00 18 00 F5 19
0116 31C0 XOR AX,AX	DS:0038 FF FF FF 00 00 00 00 00
	DS:0040 05 00 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00 00

2	
DS:0000 CD 20 FF 9F 00 EA F0 FE	A B C D E F = f.Ω≡■ i   ..+...
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF .....,fl. ....
DS:0020 FF FF FF FF FF FF FF FF	DS:0028 FF FF FF EB 19 C0 11 δ. L.
DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF 00 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00 00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - ×

AX 4C00 SI 0000 CS 19F5 IP 010B	Stack +0 0000 Flags 7204
BX 0005 DI 0000 DS 19F5	+2 20CD
CX 000D BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 1 0

CMD > [ ]	
0108 B8004C MOV AX,4C00	<b>1</b> 0 1 2 3 4 5 6 7
010B CD21 INT 21	DS:0000 CD 20 FF 9F 00 EA F0 FE
010D C3 RET	DS:0008 AD DE 1B 05 C5 06 00 00
010E 89D0 MOV AX,DX	DS:0010 18 01 10 01 18 01 92 01
0110 89DA MOV DX,BX	DS:0018 01 01 01 00 02 FF FF FF
0112 EB04 JMP 0118	DS:0020 FF FF FF FF FF FF FF FF
0114 31D2 XOR DX,DX	DS:0028 FF FF FF EB 19 C0 11
0116 31C0 XOR AX,AX	DS:0030 A2 01 14 00 18 00 F5 19
0118 8956E4 MOV [BP-1C],DX	DS:0038 FF FF FF 00 00 00 00 00
	DS:0040 05 00 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00 00

2	
DS:0000 CD 20 FF 9F 00 EA F0 FE	A B C D E F = f.Ω≡■ i   ..+...
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF .....,fl. ....
DS:0020 FF FF FF FF FF FF FF FF	DS:0028 FF FF FF EB 19 C0 11 δ. L.
DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF 00 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00 00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 4C00 SI 0000 CS F000 IP 14A0 Stack +0 42BD Flags 7004	BX 0005 DI 0000 DS 19F5 +2 06C5
CX 000D BP 0000 ES 19F5 HS 19F5 +4 7004 OF DF IF SF ZF AF PF CF	DX 0000 SP FFF2 SS 19F5 FS 19F5 +6 010D 0 0 0 0 0 0 1 0

CMD >	1 0 1 2 3 4 5 6 7
010B CD21 INT 21	DS:0000 CD 20 FF 9F 00 EA F0 FE
14A0 FB STI	DS:0008 AD DE 1B 05 C5 06 00 00
14A1 FE DB FE	DS:0010 18 01 10 01 18 01 92 01
14A2 3825 CMP [DI],AH	DS:0018 01 01 01 00 02 FF FF FF
14A4 00CF ADD BH,CL	DS:0020 FF FF FF FF FF FF FF FF
14A6 CB RET Far	DS:0028 FF FF FF EB 19 C0 11
14A7 51 PUSH CX	DS:0030 A2 01 14 00 18 00 F5 19
14A8 B94001 MOV CX,0140	DS:0038 FF FF FF 00 00 00 00 00
14AB EZFE LOOP 14AB	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.8≡■ 4 ..+....
DS:0000 CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF
DS:0020 FF FF FF FF FF FF FF	FF FF FF EB 19 C0 11
DS:0030 A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 | 7 up 8 dn 9 le 10 ri

## MASKING OPERATIONS:

Code:

```
ASM m.asm    ×  
coal > ASM m.asm  
1  [org 0x0100]  
2  jmp start  
3  num: dw 5  
4  start:  
5      mov ax , [num]  
6      mov cx , 2  
7      loop_1:  
8          shr ax , 1  
9          rcl bl , 1  
10         dec cx  
11         jnz loop_1  
12  
13     mov cx , 2  
14     loop_2:  
15         shr ax , 1  
16         rcl dh , 1  
17         dec cx  
18         jnz loop_2  
19  
20     or bl , 0  
21     and dh , 0  
22  
23     mov cx , 2  
24     loop_3:  
25         shr dh , 1  
26         rcl ah , 1  
27         dec cx  
28         jnz loop_3  
29  
30     mov cx , 2  
31     loop_4:  
32         shr bl , 1  
33         rcl al , 1  
34         dec cx  
35         jnz loop_4  
36  
37     mov ax , 0x4c00  
38     int 0x21  
39
```

## Output:

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0100	Stack +0 0000 Flags 7202
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 003B BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0 0 0 0

CMD >		1 0 1 2 3 4 5 6 7
0100 E90200 JMP 0105		DS:0000 CD 20 FF 9F 00 EA F0 FE
0103 0500A1 ADD AX,A100		DS:0008 AD DE 1B 05 C5 06 00 00
0106 0301 ADD AX,[BX+DI]		DS:0010 18 01 10 01 18 01 92 01
0108 B90200 MOV CX,0002		DS:0018 01 01 01 00 02 FF FF FF
010B D1E8 SHR AX,1		DS:0020 FF FF FF FF FF FF FF FF
010D D0D3 RCL BL,1		DS:0028 FF FF FF EB 19 C0 11
010F 49 DEC CX		DS:0030 A2 01 14 00 18 00 F5 19
0110 75F9 JNZ 010B		DS:0038 FF FF FF FF 00 00 00 00
		DS:0040 05 00 00 00 00 00 00 00 00 00 00 00
		DS:0048 00 00 00 00 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i   .+... .....ft. .... δ. L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF	
DS:0028 FF FF FF EB 19 C0 11	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	
DS:0038 FF	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
DS:0048 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0105	Stack +0 0000 Flags 7200
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 003B BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0 0 0 0

CMD > 0005-		1 0 1 2 3 4 5 6 7
0100 E90200 JMP 0105		DS:0000 CD 20 FF 9F 00 EA F0 FE
0105 A10301 MOV AX,[0103]		DS:0008 AD DE 1B 05 C5 06 00 00
0108 B90200 MOV CX,0002		DS:0010 18 01 10 01 18 01 92 01
010B D1E8 SHR AX,1		DS:0018 01 01 01 00 02 FF FF FF
010D D0D3 RCL BL,1		DS:0020 FF FF FF FF FF FF FF
010F 49 DEC CX		DS:0028 FF FF FF EB 19 C0 11
0110 75F9 JNZ 010B		DS:0030 A2 01 14 00 18 00 F5 19
0112 B90200 MOV CX,0002		DS:0038 FF FF FF FF 00 00 00 00
0115 D1E8 SHR AX,1		DS:0040 05 00 00 00 00 00 00 00
		DS:0048 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i   .+... .....ft. .... δ. L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF	
DS:0028 FF FF FF EB 19 C0 11	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00	
DS:0038 FF	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	
DS:0048 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0005 SI 0000 CS 19F5 IP 010B Stack +0 0000 Flags 7200	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 003B BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0
DX 0000 SP FFFE SS 19F5 FS 19F5	

CMD > [ ]		1 0 1 2 3 4 5 6 7
0105 A10301 MOV AX,[0103]	DS:0000 CD 20 FF 9F 00 EA FO FE	
0108 B90200 MOV CX,0002	DS:0008 AD DE 1B 05 C5 06 00 00	
010B D1E8 SHR AX,1	DS:0010 18 01 10 01 18 01 92 01	
010D D0D3 RCL BL,1	DS:0018 01 01 01 00 02 FF FF FF	
010F 49 DEC CX	DS:0020 FF FF FF FF FF EB 19 C0 11	
0110 75F9 JNZ 010B	DS:0028 FF FF FF EB 19 C0 11	
0112 B90200 MOV CX,0002	DS:0030 A2 01 14 00 18 00 F5 19	
0115 D1E8 SHR AX,1	DS:0038 FF FF FF FF 00 00 00 00	
0117 D0D6 RCL DH,1	DS:0040 05 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00	

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i   .+... .....ft. .... δ. L. 6.....J.. .....
DS:0000 CD 20 FF 9F 00 EA FO FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF FF FF FF FF FF EB 19 C0 11 FF FF FF FF FF FF FF	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 up 7 dn 8 le 9 ri 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0005 SI 0000 CS 19F5 IP 010B Stack +0 0000 Flags 7200	+2 20CD
BX 0000 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 0002 BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0
DX 0000 SP FFFE SS 19F5 FS 19F5	

CMD > [ ]		1 0 1 2 3 4 5 6 7
0108 B90200 MOV CX,0002	DS:0000 CD 20 FF 9F 00 EA FO FE	
010B D1E8 SHR AX,1	DS:0008 AD DE 1B 05 C5 06 00 00	
010D D0D3 RCL BL,1	DS:0010 18 01 10 01 18 01 92 01	
010F 49 DEC CX	DS:0018 01 01 01 00 02 FF FF FF	
0110 75F9 JNZ 010B	DS:0020 FF FF FF FF FF EB 19 C0 11	
0112 B90200 MOV CX,0002	DS:0028 FF FF FF EB 19 C0 11	
0115 D1E8 SHR AX,1	DS:0030 A2 01 14 00 18 00 F5 19	
0117 D0D6 RCL DH,1	DS:0038 FF FF FF FF 00 00 00 00	
0119 49 DEC CX	DS:0040 05 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00	

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i   .+... .....ft. .... δ. L. 6.....J.. .....
DS:0000 CD 20 FF 9F 00 EA FO FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF FF FF FF FF FF EB 19 C0 11 FF FF FF FF FF FF	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 up 7 dn 8 le 9 ri 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0002 SI 0000 CS 19F5 IP 010D	Stack +0 0000 Flags 7211
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 0002 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 0 1

CMD > [ ]		1 0 1 2 3 4 5 6 7
010B D1E8	SHR AX,1	DS:0000 CD 20 FF 9F 00 EA F0 FE
010D D0D3	RCL BL,1	DS:0008 AD DE 1B 05 C5 06 00 00
010F 49	DEC CX	DS:0010 1B 01 10 01 18 01 92 01
0110 75F9	JNZ 010B	DS:0018 01 01 01 00 02 FF FF FF
0112 B90200	MOV CX,0002	DS:0020 FF FF FF FF FF FF FF FF FF
0115 D1E8	SHR AX,1	DS:0028 FF FF FF EB 19 C0 11
0117 D0D6	RCL DH,1	DS:0030 A2 01 14 00 18 00 F5 19
0119 49	DEC CX	DS:0038 FF FF FF FF 00 00 00 00
011A 75F9	JNZ 0115	DS:0040 05 00 00 00 00 00 00 00
2 0 1 2 3 4 5 6 7 8 9 A B C D E F	DS:0048 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	= f.Ω≡≡ i   ..+... .....ft. .... δ. L. 6.....J. .... .....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0002 SI 0000 CS 19F5 IP 010F	Stack +0 0000 Flags 7210
BX 0001 DI 0000 DS 19F5	+2 20CD
CX 0002 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 0 0

CMD > [ ]		1 0 1 2 3 4 5 6 7
010D D0D3	RCL BL,1	DS:0000 CD 20 FF 9F 00 EA F0 FE
010F 49	DEC CX	DS:0008 AD DE 1B 05 C5 06 00 00
0110 75F9	JNZ 010B	DS:0010 1B 01 10 01 18 01 92 01
0112 B90200	MOV CX,0002	DS:0018 01 01 01 00 02 FF FF FF
0115 D1E8	SHR AX,1	DS:0020 FF FF FF FF FF FF FF FF
0117 D0D6	RCL DH,1	DS:0028 FF FF FF EB 19 C0 11
0119 49	DEC CX	DS:0030 A2 01 14 00 18 00 F5 19
011A 75F9	JMZ 0115	DS:0038 FF FF FF FF 00 00 00 00
011C 80CB00	OR BL,00	DS:0040 05 00 00 00 00 00 00 00
2 0 1 2 3 4 5 6 7 8 9 A B C D E F	DS:0048 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	= f.Ω≡≡ i   ..+... .....ft. .... δ. L. 6.....J. .... .....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD -

AX 0002	SI 0000	CS 19F5	IP 010B	Stack +0 0000	Flags 7200
BX 0001	DI 0000	DS 19F5		+2 20CD	
CX 0001	BP 0000	ES 19F5	HS 19F5	+4 9FFF	OF DF IF SF ZF AF FF CF
DX 0000	SP FFFE	SS 19F5	FS 19F5	+6 EA00	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

CMD >	1	0 1 2 3 4 5 6 7	
0110 75F9	JNZ	010B	DS:0000 CD 20 FF 9F 00 EA F0 FE
010B D1E8	SHR	AX,1	DS:0008 AD DE 1B 05 C5 06 00 00
010D D0D3	RCL	BL,1	DS:0010 18 01 10 01 18 01 92 01
010F 49	DEC	CX	DS:0018 01 01 01 00 02 FF FF FF
0110 75F9	JNZ	010B	DS:0020 FF FF FF FF FF FF FF FF
0112 B90200	MDU	CX,0002	DS:0028 FF FF FF EB 19 C0 11
0115 D1E8	SHR	AX,1	DS:0030 A2 01 14 00 18 00 F5 19
0117 D0D6	RCL	DH,1	DS:0038 FF FF FF FF 00 00 00 00
0119 49	DEC	CX	DS:0040 05 00 00 00 00 00 00 00
			DS:0048 00 00 00 00 00 00 00 00

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0001 SI 0000 CS 19F5 IP 010D	Stack +0 0000 Flags 7210
BX 0001 DI 0000 DS 19F5	+2 20CD
CX 0001 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 0 0

CMD > [ ]		1 0 1 2 3 4 5 6 7
010B D1E8 SHR AX,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	DS:0008 AD DE 1B 05 C5 06 00 00
010D D0D3 RCL BL,1	DS:0010 18 01 10 01 18 01 92 01	DS:0018 01 01 01 00 02 FF FF FF
010F 49 DEC CX	DS:0020 FF FF FF FF FF EB 19 C0 11	DS:0028 FF FF FF FF EB 19 C0 11
0110 75F9 JNZ 010B	DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF FF 00 00 00 00
0112 B90200 MOV CX,0002	DS:0040 05 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00
0115 D1E8 SHR AX,1		
0117 D0D6 RCL DH,1		
0119 49 DEC CX		
011A 75F9 JNZ 0115		

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i..+... .....fl. ....δ. L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF FF FF FF FF EB 19 C0 11 FF FF FF FF EB 19 C0 11	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 up 7 dn 8 le 9 ri 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0001 SI 0000 CS 19F5 IP 010F	Stack +0 0000 Flags 7210
BX 0002 DI 0000 DS 19F5	+2 20CD
CX 0001 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 0 0

CMD > [ ]		1 0 1 2 3 4 5 6 7
010D D0D3 RCL BL,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	DS:0008 AD DE 1B 05 C5 06 00 00
010F 49 DEC CX	DS:0010 18 01 10 01 18 01 92 01	DS:0018 01 01 01 00 02 FF FF FF
0110 75F9 JNZ 010B	DS:0020 FF FF FF FF FF EB 19 C0 11	DS:0028 FF FF FF FF EB 19 C0 11
0112 B90200 MOV CX,0002	DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF FF 00 00 00 00
0115 D1E8 SHR AX,1	DS:0040 05 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00
0117 D0D6 RCL DH,1		
0119 49 DEC CX		
011A 75F9 JNZ 0115		
011C B0CB00 OR BL,00		

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i..+... .....fl. ....δ. L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF FF FF FF FF EB 19 C0 11 FF FF FF FF EB 19 C0 11	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 up 7 dn 8 le 9 ri 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - ×

AX 0001 SI 0000 CS 19F5 IP 0110	Stack +0 0000 Flags 7244
BX 0002 DI 0000 DS 19F5	+2 20CD
CX 0000 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 1 0 1 0

CMD >	
010F 49 DEC CX	<b>1</b> 0 1 2 3 4 5 6 7
0110 75F9 JNZ 010B	DS:0000 CD 20 FF 9F 00 EA F0 FE
0112 B90200 MOU CX,0002	DS:0008 AD DE 1B 05 C5 06 00 00
0115 D1E8 SHR AX,1	DS:0010 18 01 10 01 18 01 92 01
0117 D0D6 RCL DH,1	DS:0018 01 01 01 00 02 FF FF FF
0119 49 DEC CX	DS:0020 FF FF FF FF FF FF FF FF
011A 75F9 JNZ 0115	DS:0028 FF FF FF EB 19 C0 11
011C 80CB00 OR BL,00	DS:0030 A2 01 14 00 18 00 F5 19
011F 80E600 AND DH,00	DS:0038 FF FF FF FF 00 00 00 00
	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

<b>2</b> 0 1 2 3 4 5 6 7 8 9 A B C D E F	
DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.Ω≡■ i   .+...
DS:0010 18 01 10 01 18 01 92 01	.....ft. ....
DS:0020 FF FF FF FF FF FF FF FF	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - ×

AX 0001 SI 0000 CS 19F5 IP 0112	Stack +0 0000 Flags 7244
BX 0002 DI 0000 DS 19F5	+2 20CD
CX 0000 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 1 0 1 0

CMD >■	
0110 75F9 JNZ 010B	<b>1</b> 0 1 2 3 4 5 6 7
0112 B90200 MOU CX,0002	DS:0000 CD 20 FF 9F 00 EA F0 FE
0115 D1E8 SHR AX,1	DS:0008 AD DE 1B 05 C5 06 00 00
0117 D0D6 RCL DH,1	DS:0010 18 01 10 01 18 01 92 01
0119 49 DEC CX	DS:0018 01 01 01 00 02 FF FF FF
011A 75F9 JNZ 0115	DS:0020 FF FF FF FF FF FF FF
011C 80CB00 OR BL,00	DS:0028 FF FF FF EB 19 C0 11
011F 80E600 AND DH,00	DS:0030 A2 01 14 00 18 00 F5 19
0122 B90200 MOU CX,0002	DS:0038 FF FF FF FF 00 00 00 00
	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

<b>2</b> 0 1 2 3 4 5 6 7 8 9 A B C D E F	
DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.Ω≡■ i   .+...
DS:0010 18 01 10 01 18 01 92 01	.....ft. ....
DS:0020 FF FF FF FF FF FF FF	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0001 SI 0000 CS 19F5 IP 0115 Stack +0 0000 Flags 7244	BX 0002 DI 0000 DS 19F5 +2 20CD
CX 0002 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 0 1 0

CMD > [ ]		1 0 1 2 3 4 5 6 7
0112 B90200 MOU CX,0002	DS:0000 CD 20 FF 9F 00 EA F0 FE	DS:0008 AD DE 1B 05 C5 06 00 00
<b>0115 D1E8 SHR AX,1</b>	DS:0010 18 01 10 01 18 01 92 01	DS:0018 01 01 01 00 02 FF FF FF
0117 D0D6 RCL DH,1	DS:0020 FF FF FF FF FF FF FF FF	DS:0028 FF FF FF EB 19 C0 11
0119 49 DEC CX	DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF FF 00 00 00 00
011A 75F9 JNZ 0115	DS:0040 05 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00
011C 80CB00 OR BL,00		
011F 80E600 AND DH,00		
0122 B90200 MOU CX,0002		
0125 D0EE SHR DH,1		

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	DS:0000 CD 20 FF 9F 00 EA F0 FE = f.Q≡■ i ..+...
DS:0010 18 01 10 01 18 01 92 01 .....,ft. ....	DS:0018 01 01 01 00 02 FF FF FF
DS:0020 FF FF FF FF FF FF FF FF	DS:0028 FF FF FF EB 19 C0 11 δ,L.
DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF FF 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 [ ] 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0117 Stack +0 0000 Flags 7255	BX 0002 DI 0000 DS 19F5 +2 20CD
CX 0002 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 1 1 1

CMD > [ ]		1 0 1 2 3 4 5 6 7
0115 D1E8 SHR AX,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	DS:0008 AD DE 1B 05 C5 06 00 00
<b>0117 D0D6 RCL DH,1</b>	DS:0010 18 01 10 01 18 01 92 01	DS:0018 01 01 01 00 02 FF FF FF
0119 49 DEC CX	DS:0020 FF FF FF FF FF FF FF	DS:0028 FF FF FF EB 19 C0 11
011A 75F9 JNZ 0115	DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF FF 00 00 00 00
011C 80CB00 OR BL,00	DS:0040 05 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00
011F 80E600 AND DH,00		
0122 B90200 MOU CX,0002		
0125 D0EE SHR DH,1		
0127 D0D4 RCL AH,1		

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	DS:0000 CD 20 FF 9F 00 EA F0 FE = f.Q≡■ i ..+...
DS:0010 18 01 10 01 18 01 92 01 .....,ft. ....	DS:0018 01 01 01 00 02 FF FF FF
DS:0020 FF FF FF FF FF FF FF FF	DS:0028 FF FF FF EB 19 C0 11 δ,L.
DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF FF 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 [ ] 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0119 Stack +0 0000 Flags 7254	BX 0002 DI 0000 DS 19F5 +2 20CD	CX 0002 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0100 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 1 1 1 0
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CMD >	<b>1</b> 0 1 2 3 4 5 6 7
0117 D0D6 RCL DH,1	DS:0000 CD 20 FF 9F 00 EA F0 FE
<b>0119 49 DEC CX</b>	DS:0008 AD DE 1B 05 C5 06 00 00
011A 75F9 JNZ 0115	DS:0010 18 01 10 01 18 01 92 01
011C 80CB00 OR BL,00	DS:0018 01 01 01 00 02 FF FF FF
011F 80E600 AND DH,00	DS:0020 FF FF FF FF FF FF FF FF
0122 B90200 MOV CX,0002	DS:0028 FF FF FF EB 19 C0 11
0125 D0EE SHR DH,1	DS:0030 A2 01 14 00 18 00 F5 19
0127 D0D4 RCL AH,1	DS:0038 FF FF FF FF 00 00 00 00
0129 49 DEC CX	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

<b>2</b> 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i   .+... .....ft. .... δ. L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	DS:0010 18 01 10 01 18 01 92 01
DS:0018 01 01 01 00 02 FF FF FF	DS:0020 FF FF FF FF FF FF FF
DS:0028 FF FF FF EB 19 C0 11	DS:0030 A2 01 14 00 18 00 F5 19
DS:0038 FF FF FF FF 00 00 00 00	DS:0040 05 00 00 00 00 00 00 00
DS:0048 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 011A Stack +0 0000 Flags 7200	BX 0002 DI 0000 DS 19F5 +2 20CD	CX 0001 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0100 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 0 0 0 0 0
--	---------------------------------	---	---

CMD > <b>1</b>	0 1 2 3 4 5 6 7
0119 49 DEC CX	DS:0000 CD 20 FF 9F 00 EA F0 FE
<b>011A 75F9 JNZ 0115</b>	DS:0008 AD DE 1B 05 C5 06 00 00
011C 80CB00 OR BL,00	DS:0010 18 01 10 01 18 01 92 01
011F 80E600 AND DH,00	DS:0018 01 01 01 00 02 FF FF FF
0122 B90200 MOV CX,0002	DS:0020 FF FF FF FF FF FF FF
0125 D0EE SHR DH,1	DS:0028 FF FF FF EB 19 C0 11
0127 D0D4 RCL AH,1	DS:0030 A2 01 14 00 18 00 F5 19
0129 49 DEC CX	DS:0038 FF FF FF FF 00 00 00 00
012A 75F9 JNZ 0125	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

<b>2</b> 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i   .+... .....ft. .... δ. L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	DS:0010 18 01 10 01 18 01 92 01
DS:0018 01 01 01 00 02 FF FF FF	DS:0020 FF FF FF FF FF FF
DS:0028 FF FF FF EB 19 C0 11	DS:0030 A2 01 14 00 18 00 F5 19
DS:0038 FF FF FF FF 00 00 00 00	DS:0040 05 00 00 00 00 00 00 00
DS:0048 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0115 Stack +0 0000 Flags 7200	+2 20CD
BX 0002 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 0001 BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0 0 0 0
DX 0100 SP FFFE SS 19F5 FS 19F5	

CMD > [ ]		<b>1</b> 0 1 2 3 4 5 6 7
011A 75F9 JNZ 0115	DS:0000 CD 20 FF 9F 00 EA F0 FE	
0115 D1E8 SHR AX,1	DS:0008 AD DE 1B 05 C5 06 00 00	
0117 D0D6 RCL DH,1	DS:0010 18 01 10 01 18 01 92 01	
0119 49 DEC CX	DS:0018 01 01 01 00 02 FF FF FF	
011A 75F9 JNZ 0115	DS:0020 FF FF FF FF FF EB 19 C0 11	
011C 80CB00 OR BL,00	DS:0028 FF FF FF EB 19 C0 11	
011F 80E600 AND DH,00	DS:0030 A2 01 14 00 18 00 F5 19	
0122 B90200 MOV CX,0002	DS:0038 FF FF FF 00 00 00 00 00 00 00 00 00	
0125 DOEE SHR DH,1	DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00 00 00 00 00 00	

<b>2</b> 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.8≡■ i..+... .....fl. .... .....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF
DS:0020 FF FF FF FF FF EB 19 C0 11	FF FF FF FF EB 19 C0 11
DS:0030 A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0117 Stack +0 0000 Flags 7254	+2 20CD
BX 0002 DI 0000 DS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
CX 0001 BP 0000 ES 19F5 HS 19F5	+6 EA00 0 0 1 0 1 1 1 0
DX 0100 SP FFFE SS 19F5 FS 19F5	

CMD > [ ]		<b>1</b> 0 1 2 3 4 5 6 7
0115 D1E8 SHR AX,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	
0117 D0D6 RCL DH,1	DS:0008 AD DE 1B 05 C5 06 00 00	
0119 49 DEC CX	DS:0010 18 01 10 01 18 01 92 01	
011A 75F9 JNZ 0115	DS:0018 01 01 01 00 02 FF FF FF	
011C 80CB00 OR BL,00	DS:0020 FF FF FF FF FF EB 19 C0 11	
011F 80E600 AND DH,00	DS:0028 FF FF FF EB 19 C0 11	
0122 B90200 MOV CX,0002	DS:0030 A2 01 14 00 18 00 F5 19	
0125 DOEE SHR DH,1	DS:0038 FF FF FF 00 00 00 00 00 00 00 00 00 00	
0127 D0D4 RCL AH,1	DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00 00 00 00 00 00	

<b>2</b> 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.8≡■ i..+... .....fl. .... .....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF
DS:0020 FF FF FF FF FF EB 19 C0 11	FF FF FF FF EB 19 C0 11
DS:0030 A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00 00 00 00 00
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0119 Stack +0 0000 Flags 7254	BX 0002 DI 0000 DS 19F5 +2 20CD
CX 0001 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0200 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 1 1 1 0

CMD > [ ]															
0117 D0D6 RCL DH,1 <b>0119 49 DEC CX</b> 011A 75F9 JNZ 0115 011C 80CB00 OR BL,00 011F 80E600 AND DH,00 0122 B90200 MOV CX,0002 0125 D0EE SHR DH,1 0127 D0D4 RCL AH,1 0129 49 DEC CX															
<b>1</b> 0 1 2 3 4 5 6 7 DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00 DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF DS:0020 FF FF FF FF FF FF FF EB 19 C0 11 FF FF FF FF FF FF DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00 DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00								<b>2</b> 0 1 2 3 4 5 6 7 DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00 = f.R≡≡ i   .+... DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF .....ft. .... DS:0020 FF FF FF FF FF FF FF EB 19 C0 11 FF FF FF FF FF FF .....δ. L. DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00 6.....J. .... DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00							

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 011A Stack +0 0000 Flags 7244	BX 0002 DI 0000 DS 19F5 +2 20CD
CX 0000 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0200 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 0 1 0

CMD > [ ]															
0119 49 DEC CX <b>011A 75F9 JNZ 0115</b> 011C 80CB00 OR BL,00 011F 80E600 AND DH,00 0122 B90200 MOV CX,0002 0125 D0EE SHR DH,1 0127 D0D4 RCL AH,1 0129 49 DEC CX 012A 75F9 JNZ 0125															
<b>1</b> 0 1 2 3 4 5 6 7 DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00 DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF DS:0020 FF FF FF FF FF FF FF EB 19 C0 11 FF FF FF FF FF FF DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00 DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00								<b>2</b> 0 1 2 3 4 5 6 7 DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00 = f.R≡≡ i   .+... DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF .....ft. .... DS:0020 FF FF FF FF FF FF FF EB 19 C0 11 FF FF FF FF FF FF .....δ. L. DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00 6.....J. .... DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00							

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 011C	Stack +0 0000 Flags 7244
BX 0002 DI 0000 DS 19F5	+2 20CD
CX 0000 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0200 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 1 0 1 0 1 0

CMD > [ ]	
011A 75F9 JNZ 0115	[ ]
011C B0CB00 OR BL,00	DS:0000 CD 20 FF 9F 00 EA F0 FE
011F B0E600 AND DH,00	DS:0008 AD DE 1B 05 C5 06 00 00
0122 B90200 MOU CX,0002	DS:0010 18 01 10 01 18 01 92 01
0125 D0EE SHR DH,1	DS:0018 01 01 01 00 02 FF FF FF
0127 D0D4 RCL AH,1	DS:0020 FF FF FF FF FF FF FF FF FF
0129 49 DEC CX	DS:0028 FF FF FF EB 19 C0 11
012A 75F9 JNZ 0125	DS:0030 A2 01 14 00 18 00 F5 19
012C B90200 MOU CX,0002	DS:0038 FF FF FF FF 00 00 00 00
	DS:0040 05 00 00 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	[ ]	
DS:0000 CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00	= f.Ω≡≡ i   .+...
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF	.....fl. ....
DS:0020 FF FF FF FF FF FF FF FF	FF FF FF EB 19 C0 11	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 011F	Stack +0 0000 Flags 7200
BX 0002 DI 0000 DS 19F5	+2 20CD
CX 0000 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0200 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0 0 0

CMD > [ ]	
011C B0CB00 OR BL,00	DS:0000 CD 20 FF 9F 00 EA F0 FE
011F B0E600 AND DH,00	DS:0008 AD DE 1B 05 C5 06 00 00
0122 B90200 MOU CX,0002	DS:0010 18 01 10 01 18 01 92 01
0125 D0EE SHR DH,1	DS:0018 01 01 01 00 02 FF FF FF
0127 D0D4 RCL AH,1	DS:0020 FF FF FF FF FF FF FF FF
0129 49 DEC CX	DS:0028 FF FF FF EB 19 C0 11
012A 75F9 JNZ 0125	DS:0030 A2 01 14 00 18 00 F5 19
012C B90200 MOU CX,0002	DS:0038 FF FF FF FF 00 00 00 00
012F D0EB SHR BL,1	DS:0040 05 00 00 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00 00 00

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	[ ]	
DS:0000 CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00	= f.Ω≡≡ i   .+...
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF	.....fl. ....
DS:0020 FF FF FF FF FF FF FF	FF FF FF EB 19 C0 11	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00	6.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - ×

AX 0000 SI 0000 CS 19F5 IP 0125	Stack +0 0000 Flags 7244
BX 0002 DI 0000 DS 19F5	+2 20CD
CX 0002 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 1 0 1 0 0

CMD >									
0122 B90200	MOV CX,0002	1	0 1 2 3 4 5 6 7						
0125 D0EE	SHR DH,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	8 9 A B C D E F						
0127 D0D4	RCL AH,1	DS:0008 AD DE 1B 05 C5 06 00 00							
0129 49	DEC CX	DS:0010 18 01 10 01 18 01 92 01							
012A 75F9	JNZ 0125	DS:0018 01 01 01 00 02 FF FF FF							
012C B90200	MOV CX,0002	DS:0020 FF FF FF FF EB 19 C0 11							
012F D0EB	SHR BL,1	DS:0028 FF FF FF FF EB 19 C0 11							
0131 D0D0	RCL AL,1	DS:0030 A2 01 14 00 18 00 F5 19							
0133 49	DEC CX	DS:0038 FF FF FF F0 00 00 00 00							
		DS:0040 05 00 00 00 00 00 00 00 00							
		DS:0048 00 00 00 00 00 00 00 00 00							

2	0 1 2 3 4 5 6 7	8 9 A B C D E F	
DS:0000 CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00	= f.Ω≡≡ i   ..+...	
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF	.....fl. ....	
DS:0020 FF FF FF FF EB 19 C0 11	FF FF FF FF EB 19 C0 11	δ. L.	
DS:0030 A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00	6.....J. ....	
DS:0040 05 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - ×

AX 0000 SI 0000 CS 19F5 IP 0127	Stack +0 0000 Flags 7254
BX 0002 DI 0000 DS 19F5	+2 20CD
CX 0002 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 1 1 1 0 0

CMD >									
0125 D0EE	SHR DH,1	1	0 1 2 3 4 5 6 7						
0127 D0D4	RCL AH,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	8 9 A B C D E F						
0129 49	DEC CX	DS:0008 AD DE 1B 05 C5 06 00 00							
012A 75F9	JNZ 0125	DS:0010 18 01 10 01 18 01 92 01							
012C B90200	MOV CX,0002	DS:0018 01 01 01 00 02 FF FF FF							
012F D0EB	SHR BL,1	DS:0020 FF FF FF FF EB 19 C0 11							
0131 D0D0	RCL AL,1	DS:0028 FF FF FF FF EB 19 C0 11							
0133 49	DEC CX	DS:0030 A2 01 14 00 18 00 F5 19							
0134 75F9	JNZ 012F	DS:0038 FF FF FF F0 00 00 00 00							
		DS:0040 05 00 00 00 00 00 00 00 00							
		DS:0048 00 00 00 00 00 00 00 00 00							

2	0 1 2 3 4 5 6 7	8 9 A B C D E F	
DS:0000 CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00	= f.Ω≡≡ i   ..+...	
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF	.....fl. ....	
DS:0020 FF FF FF FF EB 19 C0 11	FF FF FF FF EB 19 C0 11	δ. L.	
DS:0030 A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00	6.....J. ....	
DS:0040 05 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0129	Stack +0 0000 Flags 7254
BX 0002 DI 0000 DS 19F5	+2 20CD
CX 0002 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 1 1 1 1 0

CMD >		1 0 1 2 3 4 5 6 7
0127 D0D4 RCL AH,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f. . . . . . . . . .
<b>0129 49 DEC CX</b>	DS:0008 AD DE 1B 05 C5 06 00 00	..... ft. . . . .
012A 75F9 JNZ 0125	DS:0010 18 01 10 01 18 01 92 01	..... L.
012C B90200 MOU CX,0002	DS:0018 01 01 01 00 02 FF FF FF	..... J. . . . .
012F D0EB SHR BL,1	DS:0020 FF FF FF FF FF FF FF FF	.....
0131 D0D0 RCL AL,1	DS:0028 FF FF FF EB 19 C0 11	.....
0133 49 DEC CX	DS:0030 A2 01 14 00 18 00 F5 19	.....
0134 75F9 JNZ 012F	DS:0038 FF FF FF FF 00 00 00 00	.....
0136 B8004C MOU AX,4C00	DS:0040 05 00 00 00 00 00 00 00	.....
DS:0048 00 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0125	Stack +0 0000 Flags 7200
BX 0002 DI 0000 DS 19F5	+2 20CD
CX 0001 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 0 0 0

CMD > <span style="color:green">█</span>		1 0 1 2 3 4 5 6 7
012A 75F9 JNZ 0125	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f. . . . . . . . . .
<b>0125 D0EE SHR DH,1</b>	DS:0008 AD DE 1B 05 C5 06 00 00	..... ft. . . . .
0127 D0D4 RCL AH,1	DS:0010 18 01 10 01 18 01 92 01	..... L.
0129 49 DEC CX	DS:0018 01 01 01 00 02 FF FF FF	..... J. . . . .
012A 75F9 JNZ 0125	DS:0020 FF FF FF FF FF FF FF	.....
012C B90200 MOU CX,0002	DS:0028 FF FF FF EB 19 C0 11	.....
012F D0EB SHR BL,1	DS:0030 A2 01 14 00 18 00 F5 19	.....
0131 D0D0 RCL AL,1	DS:0038 FF FF FF FF 00 00 00 00	.....
0133 49 DEC CX	DS:0040 05 00 00 00 00 00 00 00	.....
DS:0048 00 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0127 Stack +0 0000 Flags 7254	BX 0002 DI 0000 DS 19F5 +2 20CD	CX 0001 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 1 1 1 0
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CMD >		1 0 1 2 3 4 5 6 7
0125 D0EE SHR DH,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	DS:0008 AD DE 1B 05 C5 06 00 00
0127 D0D4 RCL AH,1	DS:0010 18 01 10 01 18 01 92 01	DS:0018 01 01 01 00 02 FF FF FF
0129 49 DEC CX	DS:0020 FF FF FF FF FF FF EB 19 C0 11	DS:0028 FF FF FF FF EB 19 C0 11
012A 75F9 JNZ 0125	DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF FF 00 00 00 00
012C B90200 MOU CX,0002	DS:0040 05 00 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00 00
012F D0EB SHR BL,1		
0131 D0D0 RCL AL,1		
0133 49 DEC CX		
0134 75F9 JNZ 012F		

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f. R≡≡ i .+... .....ft. .... δ. L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF FF FF FF FF FF EB 19 C0 11 FF FF FF FF FF FF FF	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0129 Stack +0 0000 Flags 7254	BX 0002 DI 0000 DS 19F5 +2 20CD	CX 0001 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 1 1 1 0
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CMD > █		1 0 1 2 3 4 5 6 7
0127 D0D4 RCL AH,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	DS:0008 AD DE 1B 05 C5 06 00 00
0129 49 DEC CX	DS:0010 18 01 10 01 18 01 92 01	DS:0018 01 01 01 00 02 FF FF FF
012A 75F9 JNZ 0125	DS:0020 FF FF FF FF FF FF EB 19 C0 11	DS:0028 FF FF FF FF EB 19 C0 11
012C B90200 MOU CX,0002	DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF FF 00 00 00 00
012F D0EB SHR BL,1	DS:0040 05 00 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00 00
0131 D0D0 RCL AL,1		
0133 49 DEC CX		
0134 75F9 JNZ 012F		
0136 B8004C MOU AX,4C00		

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f. R≡≡ i .+... .....ft. .... δ. L. 6.....J. .... .....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF FF FF FF FF FF EB 19 C0 11 FF FF FF FF FF FF FF	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 012A Stack +0 0000 Flags 7244	BX 0002 DI 0000 DS 19F5 +2 ZOCD	CX 0000 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 0 1 0
--	---------------------------------	---	---

CMD > [ ]		1 0 1 2 3 4 5 6 7
0129 49 DEC CX	DS:0000 CD 20 FF 9F 00 EA F0 FE	
012A 75F9 JNZ 0125	DS:0008 AD DE 1B 05 C5 06 00 00	
012C B90200 MOV CX,0002	DS:0010 18 01 10 01 18 01 92 01	
012F D0EB SHR BL,1	DS:0018 01 01 01 00 02 FF FF FF	
0131 D0D0 RCL AL,1	DS:0020 FF FF FF FF FF FF FF FF	
0133 49 DEC CX	DS:0028 FF FF FF EB 19 C0 11	
0134 75F9 JNZ 012F	DS:0030 A2 01 14 00 18 00 F5 19	
0136 B8004C MOV AX,4000	DS:0038 FF FF FF FF 00 00 00 00	
0139 CD21 INT 21	DS:0040 05 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00	
	<b>Z 0 1 2 3 4 5 6 7 8 9 A B C D E F</b>	= f.Ω≡≡ i   ..+...
DS:0000 CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00	.....fl. ....
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF	δ. L.
DS:0020 FF FF FF FF FF FF FF FF	FF FF FF FF EB 19 C0 11	.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19	00 00 00 00 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 012C Stack +0 0000 Flags 7244	BX 0002 DI 0000 DS 19F5 +2 ZOCD	CX 0000 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 0 1 0
--	---------------------------------	---	---

CMD > [ ]		1 0 1 2 3 4 5 6 7
012A 75F9 JNZ 0125	DS:0000 CD 20 FF 9F 00 EA F0 FE	
012C B90200 MOV CX,0002	DS:0008 AD DE 1B 05 C5 06 00 00	
012F D0EB SHR BL,1	DS:0010 18 01 10 01 18 01 92 01	
0131 D0D0 RCL AL,1	DS:0018 01 01 01 00 02 FF FF FF	
0133 49 DEC CX	DS:0020 FF FF FF FF FF FF FF	
0134 75F9 JNZ 012F	DS:0028 FF FF FF EB 19 C0 11	
0136 B8004C MOV AX,4000	DS:0030 A2 01 14 00 18 00 F5 19	
0139 CD21 INT 21	DS:0038 FF FF FF FF 00 00 00 00	
013B 1CC7 SBB AL,C7	DS:0040 05 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00	
	<b>Z 0 1 2 3 4 5 6 7 8 9 A B C D E F</b>	= f.Ω≡≡ i   ..+...
DS:0000 CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00	.....fl. ....
DS:0010 18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF	δ. L.
DS:0020 FF FF FF FF FF FF FF	FF FF FF FF EB 19 C0 11	.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19	00 00 00 00 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 012F Stack +0 0000 Flags 7244	
BX 0002 DI 0000 DS 19F5 +2 20CD	
CX 0002 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	
DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 0 1 0 0	

CMD > [ ]	<b>1</b> 0 1 2 3 4 5 6 7
012C B90200 MOV CX,0002	DS:0000 CD 20 FF 9F 00 EA F0 FE
012F D0EB SHR BL,1	DS:0008 AD DE 1B 05 C5 06 00 00
0131 D0D0 RCL AL,1	DS:0010 18 01 10 01 18 01 92 01
0133 49 DEC CX	DS:0018 01 01 01 00 02 FF FF FF
0134 75F9 JMZ 012F	DS:0020 FF FF FF FF FF FF FF FF
0136 B8004C MOV AX,4C00	DS:0028 FF FF FF EB 19 C0 11
0139 CD21 INT 21	DS:0030 A2 01 14 00 18 00 F5 19
013B 1CC7 SBB AL,C7	DS:0038 FF FF FF FF 00 00 00 00
013D 46 INC SI	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i   .+... .....ft. .... .....J. ....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 [ ] 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0131 Stack +0 0000 Flags 7210	
BX 0001 DI 0000 DS 19F5 +2 20CD	
CX 0002 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	
DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 0 1 0 0	

CMD > [ ]	<b>1</b> 0 1 2 3 4 5 6 7
012F D0EB SHR BL,1	DS:0000 CD 20 FF 9F 00 EA F0 FE
0131 D0D0 RCL AL,1	DS:0008 AD DE 1B 05 C5 06 00 00
0133 49 DEC CX	DS:0010 18 01 10 01 18 01 92 01
0134 75F9 JMZ 012F	DS:0018 01 01 01 00 02 FF FF FF
0136 B8004C MOV AX,4C00	DS:0020 FF FF FF FF FF FF FF FF
0139 CD21 INT 21	DS:0028 FF FF FF EB 19 C0 11
013B 1CC7 SBB AL,C7	DS:0030 A2 01 14 00 18 00 F5 19
013D 46 INC SI	DS:0038 FF FF FF FF 00 00 00 00
013E DC00 ESC 20,[BX+SI]	DS:0040 05 00 00 00 00 00 00 00
	DS:0048 00 00 00 00 00 00 00 00

Z 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ i   .+... .....ft. .... .....J. ....
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	
DS:0020 FF	
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 [ ] 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0133	Stack +0 0000 Flags 7210
BX 0001 DI 0000 DS 19F5	+2 20CD
CX 0002 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 1 0 0

CMD >		1 0 1 2 3 4 5 6 7
0131 D0D0 RCL AL,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.Ω≡≡ i   .+...
<b>0133 49 DEC CX</b>	DS:0008 AD DE 1B 05 C5 06 00 00	.....ft. ....
0134 75F9 JNZ 012F	DS:0010 18 01 10 01 18 01 92 01	δ. L.
0136 B8004C MOV AX,4C00	DS:0018 01 01 01 00 02 FF FF FF	.....J. ....
0139 CD21 INT 21	DS:0020 FF FF FF FF FF FF FF FF FF	
013B 1CC7 SBB AL,C7	DS:0028 FF FF FF FF EB 19 C0 11	
013D 46 INC SI	DS:0030 A2 01 14 00 18 00 F5 19	
013E DC00 ESC 20,[BX+SI]	DS:0038 FF FF FF FF 00 00 00 00	
0140 008E5EFC ADD [FC5E+BP],CL	DS:0040 05 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00	

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	DS:0000 CD 20 FF 9F 00 EA F0 FE = f.Ω≡≡ i   .+...
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....ft. ....
DS:0020 FF	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000 SI 0000 CS 19F5 IP 0134	Stack +0 0000 Flags 7200
BX 0001 DI 0000 DS 19F5	+2 20CD
CX 0001 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 0 0 0 0

CMD >■		1 0 1 2 3 4 5 6 7
0133 49 DEC CX	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.Ω≡≡ i   .+...
<b>0134 75F9 JNZ 012F</b>	DS:0008 AD DE 1B 05 C5 06 00 00	.....ft. ....
0136 B8004C MOV AX,4C00	DS:0010 18 01 10 01 18 01 92 01	δ. L.
0139 CD21 INT 21	DS:0018 01 01 01 00 02 FF FF FF	.....J. ....
013B 1CC7 SBB AL,C7	DS:0020 FF FF FF FF FF FF FF FF	
013D 46 INC SI	DS:0028 FF FF FF FF EB 19 C0 11	
013E DC00 ESC 20,[BX+SI]	DS:0030 A2 01 14 00 18 00 F5 19	
0140 008E5EFC ADD [DI+OE],0000	DS:0038 FF FF FF FF 00 00 00 00	
0144 B37D0E00 CMP [DI+OE],0000	DS:0040 05 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00	

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	DS:0000 CD 20 FF 9F 00 EA F0 FE = f.Ω≡≡ i   .+...
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	.....ft. ....
DS:0020 FF	δ. L.
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....J. ....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000	SI 0000	CS 19F5	IP 012F	Stack +0 0000	Flags 7200
BX 0001	DI 0000	DS 19F5		+2 20CD	
CX 0001	BP 0000	ES 19F5	HS 19F5	+4 9FFF	OF DF IF SF ZF AF PF CF
DX 0000	SP FFFE	SS 19F5	FS 19F5	+6 EA00	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

CMD >

0134 75F9	JNZ	012F	DS:0000	CD 20 FF 9F 00 EA F0 FE	1 0 1 2 3 4 5 6 7
012F D0E8	SHR	BL,1	DS:0010	AD DE 1B 05 C5 06 00 00	DS:0000 AD DE 1B 05 C5 06 00 00
0131 D0D0	RCL	AL,1	DS:0018	18 01 10 01 18 01 92 01	DS:0010 18 01 10 01 18 01 92 01
0133 49	DEC	CX	DS:0020	01 01 01 00 02 FF FF FF FF	DS:0018 01 01 01 00 02 FF FF FF FF
0134 75F9	JNZ	012F	DS:0028	FF FF FF FF EB 19 C0 11	DS:0020 FF FF FF FF EB 19 C0 11
0136 B8004C	MOV	AX,4000	DS:0030	A2 01 14 00 18 00 F5 19	DS:0028 FF FF FF FF 00 00 00 00
0139 CD21	INT	21	DS:0038	05 00 00 00 00 00 00 00	DS:0030 A2 01 14 00 18 00 F5 19
013B 1CC7	SBB	AL,C7	DS:0040	00 00 00 00 00 00 00 00	DS:0038 FF FF FF FF 00 00 00 00
013D 46	INC	SI	DS:0048	00 00 00 00 00 00 00 00	DS:0040 05 00 00 00 00 00 00 00

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0000	SI 0000	CS 19F5	IP 0131	Stack +0 0000	Flags 7255
BX 0000	DI 0000	DS 19F5		+2 20CD	
CX 0001	BP 0000	ES 19F5	HS 19F5	+4 9FFF	OF DF IF SF ZF AF PF CF
DX 0000	SP FFFE	SS 19F5	FS 19F5	+6 EA00	0 0 1 0 1 1 1 1 1

CMD >█

012F D0EB	SHR	BL,1	
0131 D0D0	RCL	AL,1	
0133 49	DEC	CX	
0134 75F9	JNZ	012F	
0136 B8004C	MJU	AX,4C00	
0139 CD21	INT	Z1	
013B 1CC7	SBB	AL,C7	
013D 46	INC	SI	
013E DC00	ESC	Z0,[BX+SI]	

1	0	1	2	3	4	5	6	7
DS:0000	CD 20 FF 9F 00 EA F0 FE	AD DE 1B 05 C5 06 00 00	CD 20 FF 9F 00 EA F0 FE					
DS:0010	18 01 10 01 18 01 92 01	01 01 01 00 02 FF FF FF	18 01 10 01 18 01 92 01					
DS:0020	FF FF FF FF FF FF FF	FF FF FF FF EB 19 C0 11	FF FF FF FF FF FF FF					
DS:0030	A2 01 14 00 18 00 F5 19	FF FF FF FF 00 00 00 00	A2 01 14 00 18 00 F5 19					
DS:0040	05 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	05 00 00 00 00 00 00 00					

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0001 SI 0000 CS 19F5 IP 0133	Stack +0 0000 Flags 7254
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 0001 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 1 1 1 1 0

CMD >		1 0 1 2 3 4 5 6 7
0131 D0D0 RCL AL,1	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.R≡# : ..+...
<b>0133 49 DEC CX</b>	DS:0008 AD DE 1B 05 C5 06 00 00	.....ft. ....
0134 75F9 JNZ 012F	DS:0010 18 01 10 01 18 01 92 01	δ. L.
0136 B8004C MOV AX,4C00	DS:0018 01 01 01 00 02 FF FF FF	6.....J. ....
0139 CD21 INT 21	DS:0020 FF FF FF FF FF FF FF FF FF	.....
013B 1CC7 SBB AL,C7	DS:0028 FF FF FF FF EB 19 C0 11	
013D 46 INC SI	DS:0030 A2 01 14 00 18 00 F5 19	
013E DC00 ESC 20,[BX+SI]	DS:0038 FF FF FF FF 00 00 00 00	
0140 008E5EFC ADD [FC5E+BP],CL	DS:0040 05 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00 00	

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.R≡# : ..+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....ft. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	δ. L.
DS:0020 FF	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0001 SI 0000 CS 19F5 IP 0134	Stack +0 0000 Flags 7244
BX 0000 DI 0000 DS 19F5	+2 20CD
CX 0000 BP 0000 ES 19F5 HS 19F5	+4 9FFF OF DF IF SF ZF AF PF CF
DX 0000 SP FFFE SS 19F5 FS 19F5	+6 EA00 0 0 1 0 1 0 1 0 0

CMD >		1 0 1 2 3 4 5 6 7
0133 49 DEC CX	DS:0000 CD 20 FF 9F 00 EA F0 FE	= f.R≡# : ..+...
<b>0134 75F9 JNZ 012F</b>	DS:0008 AD DE 1B 05 C5 06 00 00	.....ft. ....
0136 B8004C MOV AX,4C00	DS:0010 18 01 10 01 18 01 92 01	δ. L.
0139 CD21 INT 21	DS:0018 01 01 01 00 02 FF FF FF	6.....J. ....
013B 1CC7 SBB AL,C7	DS:0020 FF FF FF FF FF FF FF FF	.....
013D 46 INC SI	DS:0028 FF FF FF FF EB 19 C0 11	
013E DC00 ESC 20,[BX+SI]	DS:0030 A2 01 14 00 18 00 F5 19	
0140 008E5EFC ADD [DI+0E],0000	DS:0038 FF FF FF FF 00 00 00 00	
0144 83?D0E00 CMP [DI+0E],0000	DS:0040 05 00 00 00 00 00 00 00	
	DS:0048 00 00 00 00 00 00 00 00 00	

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.R≡# : ..+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....ft. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	δ. L.
DS:0020 FF	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 0001 SI 0000 CS 19F5 IP 0136 Stack +0 0000 Flags 7244	BX 0000 DI 0000 DS 19F5 +2 20CD
CX 0000 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 0 1 0

CMD >		1 0 1 2 3 4 5 6 7
0134 75F9 JNZ 012F	DS:0000 CD 20 FF 9F 00 EA F0 FE	DS:0008 AD DE 1B 05 C5 06 00 00
0136 B8004C MOU AX,4000	DS:0010 18 01 10 01 18 01 92 01	DS:0018 01 01 01 00 02 FF FF FF
0139 CDZ1 INT Z1	DS:0020 FF FF FF FF FF FF EB 19 C0 11	DS:0028 FF FF FF FF EB 19 C0 11
013B 1CC7 SBB AL,C7	DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF FF 00 00 00 00
013D 46 INC SI	DS:0040 05 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00
013E DC00 ESC 20,[BX+SI]		
0140 008E5EFC ADD [FC5E+BP],CL		
0144 837D0E00 CMP [DI+OE],0000		
0148 7409 JZ 0153 .		

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ ≡ ..+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....ft. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	δ. L.
DS:0020 FF FF FF FF FF FF EB 19 C0 11 FF FF FF FF EB 19 C0 11	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD - X

AX 4000 SI 0000 CS 19F5 IP 0139 Stack +0 0000 Flags 7244	BX 0000 DI 0000 DS 19F5 +2 20CD
CX 0000 BP 0000 ES 19F5 HS 19F5 +4 9FFF OF DF IF SF ZF AF PF CF	DX 0000 SP FFFE SS 19F5 FS 19F5 +6 EA00 0 0 1 0 1 0 1 0

CMD >		1 0 1 2 3 4 5 6 7
0136 B8004C MOU AX,4000	DS:0000 CD 20 FF 9F 00 EA F0 FE	DS:0008 AD DE 1B 05 C5 06 00 00
0139 CD21 INT Z1	DS:0010 18 01 10 01 18 01 92 01	DS:0018 01 01 01 00 02 FF FF FF
013B 1CC7 SBB AL,C7	DS:0020 FF FF FF FF FF FF EB 19 C0 11	DS:0028 FF FF FF FF EB 19 C0 11
013D 46 INC SI	DS:0030 A2 01 14 00 18 00 F5 19	DS:0038 FF FF FF FF 00 00 00 00
013E DC00 ESC 20,[BX+SI]	DS:0040 05 00 00 00 00 00 00 00	DS:0048 00 00 00 00 00 00 00 00
0140 008E5EFC ADD [FC5E+BP],CL		
0144 837D0E00 CMP [DI+OE],0000		
0148 7409 JZ 0153		
014A 8B46F2 MOU AX,[BP-OE]		

2 0 1 2 3 4 5 6 7 8 9 A B C D E F	= f.Ω≡≡ ≡ ..+...
DS:0000 CD 20 FF 9F 00 EA F0 FE AD DE 1B 05 C5 06 00 00	.....ft. ....
DS:0010 18 01 10 01 18 01 92 01 01 01 01 00 02 FF FF FF	δ. L.
DS:0020 FF FF FF FF FF FF EB 19 C0 11 FF FF FF FF EB 19 C0 11	6.....J. ....
DS:0030 A2 01 14 00 18 00 F5 19 FF FF FF FF 00 00 00 00	.....
DS:0040 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri