

PRAC8(A)

Memory

0x0 - 0x25

0xFFFF - 0xFFFF

0x2001 - 0x2003

+

Displaying Memory Locations from 0x2001 to 0x2003

Double click the value to edit then press Enter to save the value or Tab to edit the next location.

0x2001	0F	
0x2002	30	
0x2003	46	

- LXI SP,0FFFFH
- LXI H,2001H
- LXI D,2002H
- MOV A,M
- MOV B,A
- RRC
- RRC
- RRC
- RRC
- CALL ASCII
- STAX D
- INX D
- MOV A,M
- CALL ASCII
- STAX D
- HLT
- ASCII: ANI 0FH
- CPI 0AH
- JC CODE
- ADI 07H
- CODE:ADI 30H
- RET

Machine Code

Line	Address	Machine Code	Source Code
1	0x0	31 FF FF	LXI SP,0FFFFH
2	0x3	21 01 20	LXI H,2001H
3	0x6	11 02 20	LXI D,2002H
4	0x9	7E	MOV A,M
5	0xA	47	MOV B,A
6	0xB	0F	RRC
7	0xC	0F	RRC
8	0xD	0F	RRC
9	0xE	0F	RRC
10	0xF	CD 1A 00	CALL ASCII
11	0x12	12	STAX D
12	0x13	13	INX D
13	0x14	7E	MOV A,M
14	0x15	CD 1A 00	CALL ASCII
15	0x18	12	STAX D
16	0x19	76	HLT
17	0x1A	E6 0F	ASCII: ANI 0FH
18	0x1C	FE 0A	CPI 0AH
19	0x1E	DA 23 00	JC CODE



PRAC8(B)

Memory

0x0 - 0x1D

0x7001 - 0x7004




0xFFFF - 0xFFFF

0x7001 - 0x7003  

+

Displaying Memory Locations from 0x7001 to 0x7003

Double click the value to edit then press Enter to save the value or Tab to edit the next location.

0x7001	32 
0x7002	00 
0x7003	02 

- LXI SP,0FFFFH
- LXI H,7001H
- LXI D,7003H
- MOV A,M
- CALL ASCII
- STAX D
- INX H
- MOV A,M
- CALL ASCII
- INX D
- STAX D
- HLT
- ASCII: SUI 30H
- CPI 0AH
- RC
- SUI 07H
- RET

Machine Code

Line	Address	Machine Code	Source Code
1	0x0	31 FF FF	LXI SP,0FFFFH
2	0x3	21 01 70	LXI H,7001H
3	0x6	11 03 70	LXI D,7003H
4	0x9	7E	MOV A,M
5	0xA	CD 16 00	CALL ASCII
6	0xD	12	STAX D
7	0xE	23	INX H
8	0xF	7E	MOV A,M
9	0x10	CD 16 00	CALL ASCII
10	0x13	13	INX D
11	0x14	12	STAX D
12	0x15	76	HLT
13	0x16	D6 30	ASCII: SUI 30H
14	0x18	FE 0A	CPI 0AH
15	0x1A	D8	RC
16	0x1B	D6 07	SUI 07H
17	0x1D	C9	RET

PRAC9

Memory

0x0 - 0x1A

0x2006

+

0x4001 - 0x4006

✎ 🗑

Displaying Memory Locations from 0x4001 to 0x4006

Double click the value to edit then
 press Enter to save the value or
 Tab to edit the next location.

0x4001	04	✎
0x4002	20	✎
0x4003	15	✎
0x4004	13	✎
0x4005	22	✎
0x4006	42	✎

1	LDA 4001H
2	MOV C,A
3	MVI B,00H
4	LXI H,4002H
5	BACK: MOV A,M
6	ANI 01H
7	JNZ SKIP
8	MOV A,B
9	ADD M
10	MOV B,A
11	SKIP: INX H
12	DCR C
13	JNZ BACK
14	STA 4006H
15	HLT

Machine Code

Line	Address	Machine Code	Source Code
1	0x0	3A 01 40	LDA 4001H
2	0x3	4F	MOV C,A
3	0x4	06 00	MVI B,00H
4	0x6	21 02 40	LXI H,4002H
5	0x9	7E	BACK: MOV A,M
6	0xA	E6 01	ANI 01H
7	0xC	C2 12 00	JNZ SKIP
8	0xF	78	MOV A,B
9	0x10	86	ADD M
10	0x11	47	MOV B,A
11	0x12	23	SKIP: INX H
12	0x13	0D	DCR C
13	0x14	C2 09 00	JNZ BACK
14	0x17	32 06 40	STA 4006H
15	0x1A	76	HLT

PRAC10

Memory



0x0 - 0x20

0x2006



0x4001 - 0x4006



Displaying Memory Locations from 0x4001 to 0x4006

Double click the value to edit then
press Enter to save the value or
Tab to edit the next location.

0x4001	04	
0x4002	20	
0x4003	15	
0x4004	13	
0x4005	22	
0x4006	28	

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1 LDA 4001H
2 MOV C,A
3 LXI H,4002H
4 MVI E,00H
5 MOV D,E
6 BACK: MOV A,M
7 ANI 01H
8 JZ SKIP
9 MOV A,E
10 ADD M
11 MOV E,A
12 JNC SKIP
13 INR D
14 SKIP: INX H
15 DCR C
16 JNZ BACK
17 MOV A,E
18 STA 4006H
19 HLT
    
```

Machine Code

Line	Address	Machine Code	Source Code
1	0x0	3A 01 40	LDA 4001H
2	0x3	4F	MOV C,A
3	0x4	21 02 40	LXI H,4002H
4	0x7	1E 00	MVI E,00H
5	0x9	53	MOV D,E
6	0xA	7E	BACK: MOV A,M
7	0xB	E6 01	ANI 01H
8	0xD	CA 17 00	JZ SKIP
9	0x10	7B	MOV A,E
10	0x11	86	ADD M
11	0x12	5F	MOV E,A
12	0x13	D2 17 00	JNC SKIP
13	0x16	14	INR D
14	0x17	23	SKIP: INX H
15	0x18	0D	DCR C
16	0x19	C2 0A 00	JNZ BACK
17	0x1C	7B	MOV A,E
18	0x1D	32 06 40	STA 4006H
19	0x20	76	HLT