


Q1(A)

```
MOV AL, 2H
MOV BL, 2H
MUL BX
MOV CX, AX
MOV AL, 3H
MOV BL, 3H
MUL BL
ADD CX, AX
MOV AL, 4H
MOV BL, 5H
MUL BL
ADD CX, AX
MOV AL, 4H
MOV BL, 5H
MUL BL
MOV DX, AX
MOV AL, 3H
MOV BL, 3H
MUL BL
ADD DX, AX
MOV AX, DX
MUL CX
MOV [3000H], AX
```


 Random Access Memory

0100:3000

0100:3000	BD	03	00
0100:3010	00	00	00
0100:3020	00	00	00
0100:3030	00	00	00
0100:3040	00	00	00
0100:3050	00	00	00
0100:3060	00	00	00
0100:3070	00	00	00

Q1(B)

```
MOV AL, 2H
MOV BX, 0C8H
MUL BX
MOV CX, AX
MOV AL, 3H
MOV BL, 3H
MUL BL
ADD CX, AX
MOV AL, 4H
MOV BL, 5H
MUL BL
ADD CX, AX
MOV AL, 4H
MOV BL, 5H
MUL BL
MOV DX, AX
MOV AL, 3H
MOV BL, 3H
MUL BL
ADD DX, AX
MOV AX, DX
MUL CX
MOV [3002H], AX
```

 Random Access Memory

0100:3002

0100:3002	99	30	00
0100:3012	00	00	00
0100:3022	00	00	00
0100:3032	00	00	00
0100:3042	00	00	00
0100:3052	00	00	00
0100:3062	00	00	00
0100:3072	00	00	00

Q1(C)

```
MOV AL,2H
MOV BX,64H
MUL BX
MOV CX,AX
MOV AL,3H
MOV BL,3H
MUL BL
ADD CX,AX
MOV AL,4H
MOV BL,5H
MUL BL
ADD CX,AX
MOV AL,4H
MOV BL,5H
MUL BL
MOV DX,AX
MOV AL,3H
MOV BL,3H
MUL BL
ADD DX,AX
MOV AX,DX
MUL CX
MOV [3004H],AX
```



Random Access Memory

0100:3004

u

0100:3004	F1	19	00
0100:3014	00	00	00
0100:3024	00	00	00
0100:3034	00	00	00
0100:3044	00	00	00
0100:3054	00	00	00
0100:3064	00	00	00
0100:3074	00	00	00

Q2(A)

```
MOV AL,12H
MOV BL,AL
ROR BL,4
MOV [3006H],BL
```

0100:3006	21	00	00
0100:3016	00	00	00
0100:3026	00	00	00
0100:3036	00	00	00
0100:3046	00	00	00
0100:3056	00	00	00
0100:3066	00	00	00
0100:307C	00	00	00

Q2(B)

```
MOV [2050H],1234H
MOV AL,[2050H]
MOV AH,[2051H]
MOV BL,AL
MOV BH,AH
ROR BH,4
ROR BL,4
MOV AL,BH
MOV AH,BL
MOV [3008H],AX
```

0100:3008

0100:3008	21	43	00
0100:3018	00	00	00
0100:3028	00	00	00
0100:3038	00	00	00
0100:3048	00	00	00
0100:3058	00	00	00
0100:3068	00	00	00
0100:3070	00	00	00

Q2(C)

```
MOV AL,56H
MOV BL,0X0F
AND AL,BL
MOV [3010H],AL
```

```
MOV AL,56H
MOV BH,0XF0
AND AL,BH
MOV [3012H],AL
```

0100:3010

update

0100:3010	06	00	50	00
0100:3020	00	00	00	00
0100:3030	00	00	00	00
0100:3040	00	00	00	00
0100:3050	00	00	00	00
0100:3060	00	00	00	00
0100:3070	00	00	00	00
0100:3080	00	00	00	00