

# Review Question and Exercises

## Short Answer

1. Bx = 0068h
2. Bx = 0092h
3. Bx = 64BBh
4. Bx = A857h
5. EBX = BFAFF69Fh
6. RBX = FFFF FFFF 5050 9B64h
7. A : 0010 1101b / B : 0100 1000b / C : 0110 1111b / D : 1010 0011b
8. A : 85h / B : 34h / C : BFh / D : Ahh
9.  
A : CF = 0, ZF = 0, SF = 0  
B : CF = 0, ZF = 0, SF = 0  
C : CF = 1, ZF = 0, SF = 1
10. JECXZ
11. 두 명령 모두 CF = 0, ZF = 0일 때 점프
12. EDX = 1
13. EDX = 1
14. EDX = 0
15. True
16. True
17. RBX = 0000 0000 0000 0080h
18. RBX = 0000 0000 0080 8080h
19. RBX = 0000 0000 8080 8080h

## Algorithm Workbench

1. And al, 0Fh
2. .  
mov eax, [mem32]  
xor al, ah  
shr eax, 16  
xor al, ah  
  
mov bl, al  
shr bl, 4  
xor al, bl  
mov bl, al  
shr bl, 2  
xor al, bl  
mov bl, al  
shr bl, 1  
xor al, bl  
and al, 1
3. .  
Mov eax, SetX  
Mov edx, SetY  
Not edx  
And eax, edx
4. .  
Cmp dx, cx  
Jbe L1

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5. .
   Cmp ax, cx
   Jg L2
6. .
   And al, 0FCh
   Test al, al
   Jz L3
   Jmp L4
7. .
   Mov eax, val1
   Cmp eax, ecx
   Joe Else
   Cmp ecx, edx
   Joe Else
   Mov X, 1
   Jmp Done
   Else:
   Mov X,2
   Done:
8. .
   cmp ebx, ecx
   jg Set1
   cmp ebx, val1
   jg Set1
   mov X, 2
   jmp Done
   Set1:
   mov X, 1
   Done:
9. .
   cmp ebx, ecx
   jle Check2
   cmp ebx, edx
   jle Check2
   mov X, 1
   jmp Done

   Check2:
   cmp edx, eax
   jg Set1
   mov X, 2
   jmp Done

   Set1:
   mov X, 1
   Done:
10. .
   WhileTop:
       cmp N, 0
       jle WhileEnd

       mov eax, N
       cmp eax, 3
       je ElsePart

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```
cmp eax, A
jl ThenPart
cmp eax, B
jg ThenPart
jmp ElsePart
```

```
ThenPart:
    sub N, 2
    jmp WhileTop
```

```
ElsePart:
    sub N, 1
    jmp WhileTop
```

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WhileEnd:
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