

CS 340

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Section 6.10.1

1.

0FFFFh = 0 1111 1111 1111 1111

6Bh = 0 0000 0000 0110 1011

bx = 6Bh = 0 0000 0000 0110 1011

2.

91BAh = 1001 0001 1011 1010

92h = 0000 0000 1001 0010

Bx = 92h = 0000 0000 1001 0010

10.

JECXZ jump if ecx = 0

13.

Edx = 1;

17.

FFFFFFFFFFFFFFFFh

0000000000000080h

Rbx = 80h

Section 6.10.2

6.

And al, 10101010b

Jz L3

Jmp L4

7.

Cmp val1, ecx

Jbe Ex1

Cmp ecx, edx

Jbe Ex1

Mov 1, X

Ex1:

Mov 2, x

8.

Cmp ebx, ecx

Ja A1

Cmp ebx, val1

Ja A1

Mov x, 2

Jmp A2

A1:

Mov x, 1

A2:

9. If statement a true jmp to x = 1 if

Cmp ebx, ecx

Jbe T2

Cmp ebx, edx

Jbe T2

Jmp A1

T2:

Cmp edx, eax

Ja A1

Mov x, 2

Jmp A2

A1:

Mov x, 1

A2:

Not in book problems

10.

Cmp ebx, ecx

Ja A2

Mov eax, 5

Mov edx, 6

A2:

11.

Cmp var1, var2

Ja A2

Mov var3, 10

Jmp A1

A2:

Mov var3, 6

Mov var4, 7

A1:

12.

Cmp cbx, ecx

Ja A2

Cmp ecx, edx

Jbe A2

Mov eax, 5

Mov edx, 6

A2:

13.

L1:

Cmp ebx, val1

Ja L2

Add ebx, 5

Dec val1

Jmp L1

L2: