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CPE 185

### Homework 3

1 Identify the op-code and operand for the instruction `CMP CX,DX`.

Op code is `CMP` and the operand is `CX,DX`

2 Which instruction below loads register `BX` with the data `1000H`?

(a) `MOV [1000H],BX`

(b) `MOV BX, 1000H`

(c) `MOV BX,[ 1000H]`

(d) `ADD BX, 1000H`

3 In Question 4.1.2, which instruction loads register `BX` with the contents of memory location `1000H`?

`MOV BX,[ 1000H]`

6 Determine the contents of register `AL` after the following instructions have executed:

`MOV BL,8CH`

`MOV AL,7EH`

`ADD AL,BL`

**7Eh + 8Ch == 0Ah**

**So al becomes 0Ah**

7 The instruction sequence

`CMP BL,AL`

`JA 100H`

will transfer control to memory location `100H` if **BL > AL**