

EE3450 Hw2 - Question 2 (2.10)

總分 12/12 ?

Chapter 2 : Instructions: Language of the Computer

0分, 共0分

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Question 2 (2.10)

12分, 共12分

Assume that registers "x5" and "x6" hold the values "0x8000000000000000" and "0xD000000000000000", respectively.

✓ 1. [2.4] What is the value of "x30" for the following assembly code? (in hexadecimal, write "0x" first. For example, 0x500) * 2/2

```
add x30, x5, x6
```

0x5000000000000000 ✓

✓ 2. [2.4] Is the result in "x30" the desired result, or has there been overflow? * 2/2

Desired result

Overflow ✓

✓ 3. [2.4] For the contents of registers "x5" and "x6" as specified above, what is the value of "x30" for the following assembly code? (in hexadecimal, write "0x" first. For example, 0x500) * 2/2

```
sub x30, x5, x6
```

0xB000000000000000 ✓

✓ 4. [2.4] Is the result in "x30" the desired result, or has there been overflow? 2 points * 2/2

Desired result ✓

Overflow

✓ 5. [2.4] For the contents of registers "x5" and "x6" as specified above, what is the value of "x30" for the following assembly code? (in hexadecimal, write "0x" first. For example, 0x500) * 2/2

```
add x30, x5, x6
add x30, x30, x5
```

0xD000000000000000 ✓

✓ 6. [2.4] Is the result in "x30" the desired result, or has there been overflow? 2 points * 2/2

Desired result

Overflow ✓