HW 9: Moving Data between registers

Due Mar 8 at 11:59pm **Points** 10 **Questions** 10 **Available** until Mar 15 at 11:59pm **Time Limit** None

Instructions

The **mov** instruction is the most commonly used x86 assembly instruction according to the research from the following link: https://www.strchr.com/x86_machine_code_statistics (https://www.strchr.com/x86_machine_code_statistics)

Knowing how to use the **mov** instruction correctly is quite important.

This assignment explores the usage of the mov instruction where the destination operand and the source operand are both registers. The assignment can be completed by observing the size of the register operands. If you have any doubts test the instruction in tutorialspoint coding ground.

The following excerpt is taken from: pcasm-book.pdf

The most basic instruction is the MOV instruction. It moves data from one location to another (like the assignment operator in a high-level language). It takes two operands:
mov dest, src
The data specified by src is copied to dest. One restriction is that both operands may not be memory operands. This points out another quirk of assembly. There are often somewhat arbitrary rules about how the various instructions are used. The operands must also be the same size. The value
of AX can not be stored into BL. (PC Assembly Language Page 12, by Paul A. Carter)

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	162 minutes	10 out of 10

⚠ Correct answers will be available on Mar 16 at 12am.

Score for this quiz: **10** out of 10
Submitted Mar 3 at 9:25pm
This attempt took 162 minutes.

Question 1 — 1 / 1 pts

The following instruction is valid:

mov esi, ebx

- (•) True
- ( ) False

Question 2

1 / 1 pts

The following instruction is valid:

mov si, ebx

- ○ True
- ◉ False

Question 3

1 / 1 pts

The following instruction is valid:

mov ax, bx

- ◉ True
- ○ False

Question 4

1 / 1 pts

The following instruction is valid:

mov si, cl

- ○ True
- ◉ False

Question 5

1 / 1 pts

The following instruction is valid:

mov dx, bl

- True
- (•) False

Question 6

1 / 1 pts

The following instruction is valid:

mov bh, si

- True
- (•) False

Question 7

1 / 1 pts

The following instruction is valid:

mov cx, di

- (•) True
- False

Question 8

1 / 1 pts

The following instruction is valid:

mov eax, esi

- (•) True

False

Question 9 1 / 1 pts

The following instruction is valid:

mov ax, es

- (•) True
- ( ) False

Question 10 1 / 1 pts

The following instruction is valid:

mov ds, ax

- (•) True
- ( ) False

Quiz Score: **10** out of 10