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## Lab #3 - x86 Registers

<b>Objectives</b> Understanding x86 Registers
Part #1 - Quiz Instructions Please answer all of the given questions.
Q1) Which of the following registers is the Stack Pointer?  SP ESI EDX AIX EXC ESP
Q2) BP is a register that holds the address of the next instruction to be executed.  1. True  2. False
Q3) AX is a 16-bit register, while EAX is a 32-bit register.  1. True  2. False
Q4) Which of the following registers is used for loops?    ECX   EDX   EAX   DX   EIP   EXC

Q5) Which of the following registers is the Source Index Pointer?    ESI
Q6) Which of the following EFLAGS Registers is set if the result of the operation is Zero?    FZ
Q7) What is the name of the EFLAGS register that is used when the result of an operation is negative?
Q8) The register EAX can also be used to hold a function call's return value.  1. True  2. False
Q9) Which of the following registers is the Instruction Pointer?    EPB   EIP   BP   AX   EBP   IP   EAX

Q11) Explain why the stack uses two registers.

Q10) Which of the following registers is not a 32-bit register? (select all that apply)
□ EAX
□ ECX
□ сх
□ RAX
□ RBX
□ ESP
☐ EBP
□ EDI
□ CL
□ EBX

Part #2 - Please reflect on what you learned from this lab