### Lab 2 prelab

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#### What is Assembly Language?

Assembly Language is the human readable representation of machine instructions. Unlike high level programming languages, assembly language only includes three main functors: Instructions, Registers, and Constants.

#### In the assembly code sub a,b,c, which operand is the destination?

In MIPS assembly, the instruction sub a,b,c will place b - c into a. In every MIPS instruction, destination is first.

#### Why are operands stored in registers?

Operands are stored in registers to allow operations to be performed quickly on arbitrary data instead of having to always read from memory.

## This lab creates 8 registers. How many registers does a MIPs have?

There are 32 registers in a MIPs processor.

# How many operands can be read from a MIPs register at a time?

A maximum of 2 registers can be read at one time

### How many operands can be written to a MIPs register at a time?

One register can be written to at one time