

Activity: Simulating Missing Operations

A. Why?

The LC-3 doesn't is missing operations that we want to do.

B. Outcomes

By the end of the activity you should

- Be able to simulate subtraction, OR, register-zeroing and register-copying using available instructions (AND, ADD, NOT).

C. Questions

Write LC-3 code to perform each of the operations below.

1. Subtraction: Set Register X = Register Y – Register Z.
2. Logical OR: Set Register X = Register Y (bitwise) OR Register Z.
3. Set Register X to zero.
4. Copy register: Set Register X = Register Y.