

CS 270 Recitation 8

LC-3 operation

This recitation teaches you about the sequence of operations performed for each instruction in the LC-3 microarchitecture using the LC-3 visualizer, including the use of registers and the active control signals. This will be helpful later in the semester when you implement the logic for a portion of the LC-3.

https://www.cs.colostate.edu/~cs270/.Spring18/resources/LC3_VISUALIZER.php

Use the table on the next page or this spreadsheet to complete the assignment.

<https://www.cs.colostate.edu/~cs270/.Spring18/recitations/R8/R8.xlsx>

For each step of an instruction, mark

- the registers read with an R
- the registers written with a W
- the active control signals with an X

Note the flow of data in the registers in the steps of an instruction, along with the common groups of control signals.

