edX   **CornellX: ENGRI1210x The Computing Technology Inside Your Smartphone**   ☰ Karen West ▼

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Syllabus   **How to Use Jade**

Help

In this module, we will learn to systematically take a problem from a high-level problem statement to our LC-3 machine code. We will learn the methodology and steps necessary to convert our intended problem into smaller and smaller tasks, finally arriving at something the LC-3 can understand. To do this, we will cover sequential, iterative, and conditional constructs, flow diagrams, and LC-3 instructions.

At the end of the module, you will be able to:

- Identify sequential, conditional, and iterative constructs.

- Translate a problem statement into sequential, conditional, and/or iterative constructs.

- Select the correct LC-3 control statements to express the program constructs.

- Describe how to take a high-level problem statement and create an LC-3 program addressing the problem.

INTRODUCING PROGRAMMING TO SOLVING PROBLEMS

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