

1. Study Section 7.4.
2. Study the Java Map hash table example.
<https://cslab.pepperdine.edu/warford/cosc330/MapDemo.zip>
3. Study the Java version of the program in Figures 7.38 – 48.
4. Do Problem 7.19(b). Note that Problem 7.19(c) is the specification for the second milestone of your project on which this assignment is based.

There is one additional requirement for Problems 7.19(b) and (c). The branch instructions that you will implement are BR, BRLT, BREQ, and BRLE. The legal addressing modes for these instructions are immediate and indexed as specified by the addressing-a field shown in Figure 4.8 (page 191). It is legal to omit the addressing mode for these instructions in the source code. If the addressing mode is omitted then immediate addressing is the default. Your finite state machine for the parser must include the possibility that a legal program might include a branch instruction without an addressing mode.

Hand in the exercise on paper or in a PDF file named `xxa15written.pdf` where `xx` is your two-digit ID number.