

## Handout 4: Recitation Problems

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**Problem 1: Warm up:** List all strings of length 3 or less that match the regular expression

$$0^*(100^*)^*$$

**Problem 2:** Create, by hand, a machine (NFA or DFA) that recognizes the language described by the above regular expression.

**Problem 3:** Create, using the construction given in class, an NFA that recognizes the language described by the above regular expression.

**Problem 4:** Find a regular expression that describes the language recognized by the machine:

