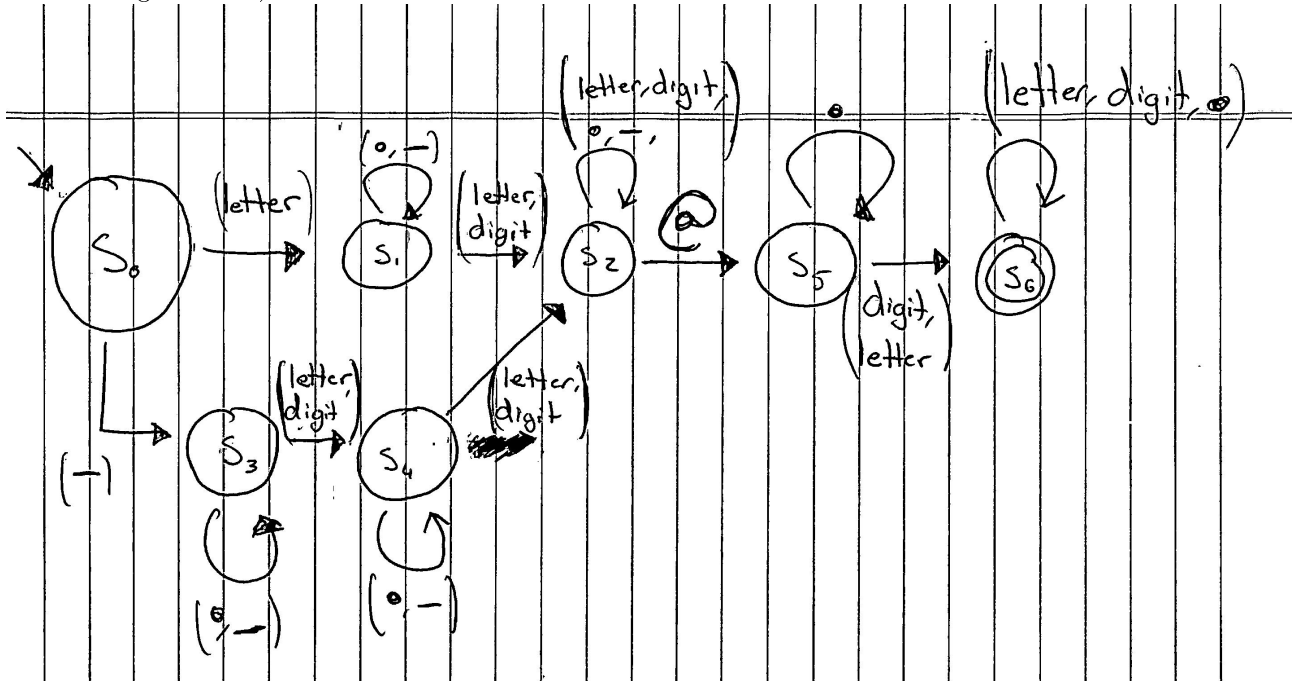# CS536: Homework 1

Sahit Mandala

September 15, 2015

Problem 1

Assumptions: Exactly 1 @ symbol in string (rule 1 says only letter, digits, ., _ are otherwise allowed).
Also, the 2 letter/digits before the @ can be either 2 letters, 2 digits, or 1 number and 1 digit (anywhere in the substring before @)

Problem 2

Assuming that there can be 3, but no more, dashed lines in a row.

$$(-|(--)|(---)|\varepsilon)(letter^+)[(-|(--)|(---))(letter^+)]^*(-|(--)|(---)|\varepsilon)$$