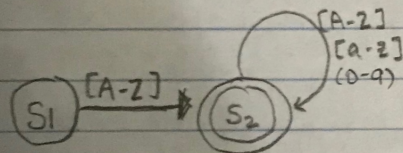


Lab 1 : Regexes, FSAS, Functional and OOP Paradigms

Part I

- 1) All Alphanumeric strings beginning with an upper-case letter.

$[A-Z] ([A-Z] + [a-z] + [0-9])^*$



A ✓

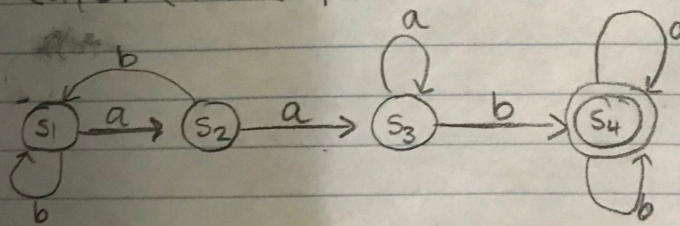
AAai ✓

A0AA ✓

A55aA ✓

- 2) All string of a's and b's in which the string "aab" occurs atleast once.

$(a|b)^* (aab) (a|b)^*$



abaabab

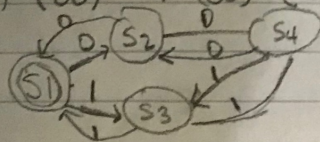
abab aabab

abaababab

aaaaabaaa ✓

- 3) All string of 0's and 1's in which are even number of 0's and 1's

$(11)^* (00)^* + (00)^* (11)^*$



11 00 00 11 ✓

00 00 11 ✓

11 00 11 ✓

00 00 11 11 ✓

11 11 00 ✓

4) All binary numbers with odd number of 1's.

01 111 1111 1101 10011 11100

$(0)^*(11)^*(0)^*(10)^*$

