

CS1356 Introduction to Information Engineering

Quiz 12, 2011/01/03

Your name _____ Student ID _____

1. Which of the following regular expression(s) can match **abbccc** **20%**

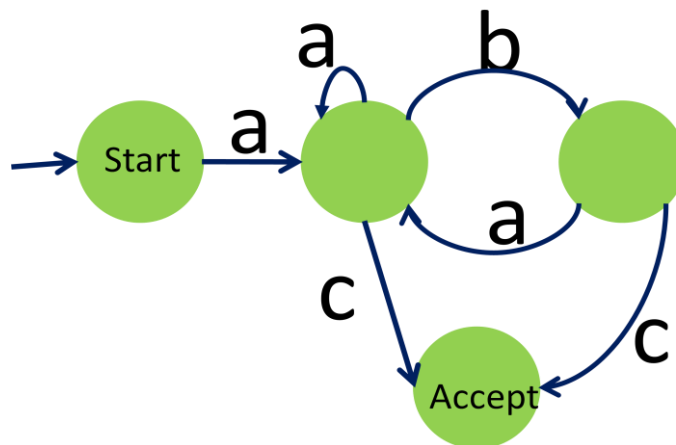
- (a) $a(b|c)^+$ (b) $ab+c^*$ (c) $(c|b|a)^+$ (d) $(d|a)?bc^+$ (e) $(a|b)^+c^*$

Ans:

a b c e

2. Draw finite state machines for the regular expression **$(ab^?)^+c$** **20%**

Ans:



3. Convert the expression $5 + \frac{7*3+4-5}{2*(9-4)}$ to its prefix and postfix notations

60%

Prefix:

Postfix