

FCS Midterm Q5

Given $R = (0^*10^+)^+1^*$ and $S = (1^*01^+)^*$

(a) Neither: 0

(b) In S not in R: 10

(c) in R not in S: 01

(d) Both: 101

e) Design a regular expression that accepts the language of all binary strings with no occurrences of `bab`

$a^*b^*a^*$