

Theory of Computation

Exercise 4:

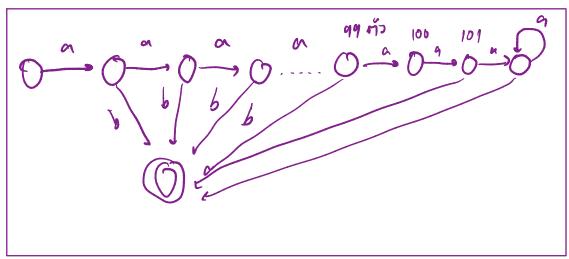
(Closure properties of Regular Language and Regular Expression)

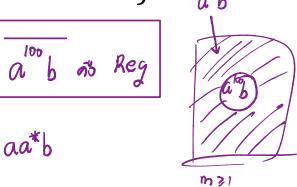
1. Prove that the language $\{a^mb: m \ge 1 \ and \ m \ne 100\}$

is regular. { ab, aab, anb }

a b as Reg

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2. Find regular expression for the following language

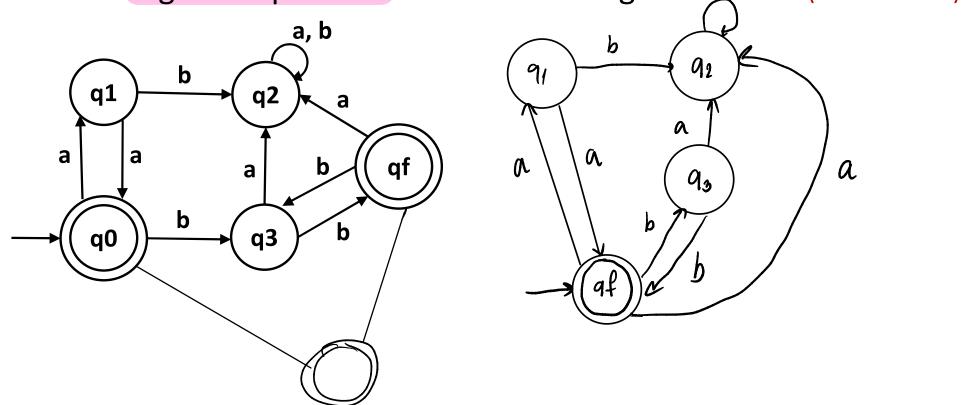
L =
$$\{w \in \{a,b\}^{\frac{2}{3}}: w \text{ does not end with } ab\}$$

= $\{A,a,b,aa,ba,bb,aaa,\dots\}$

| The second with ab |

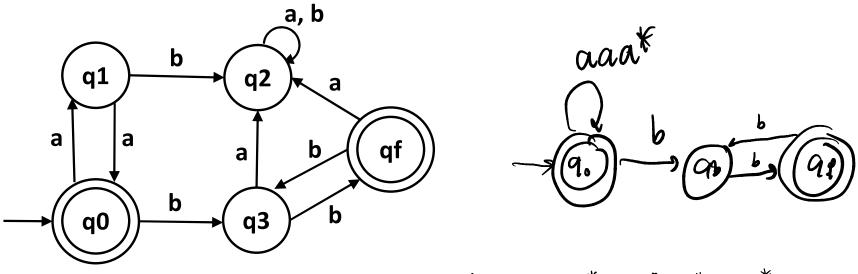
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*3. Find regular expression for the following DFA. α, b (Homework 3)



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(Homework 3)



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(Homework 3)

