

Notes about problems from a variety of sources

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Stanford-cs103 spring14 hw5

Problem 1b

After playing around with some examples, I found that a string is accepted in one of the following cases.

1. ϵ
2. a^+
3. b^+
4. ba
5. $(ab^+aa)(a^*baa)^*$
6. $(baa^+b)(b^*aa^+b)^*a?$

So the regular expression for the language should be the union of the above cases.

Note that strings with consecutive ab 's can never be accepted.

below is the DFA I built:

