



Cohen chapter 4

1. Let r_1 , r_2 , and r_3 be three regular expressions. Show that the language associated with $(r_1 + r_2)r_3$ is the same as the language associated with $r_1r_3 + r_2r_3$. Show that $r_1(r_2 + r_3)$ is equivalent to $r_1r_2 + r_1r_3$. This will be the same as providing a 'distributive law' for regular expressions.

$(r_1 + r_2)r_3$: The first expression can be either r_1 or r_2 .
The second expression is always r_3 .
There are two possibilities for this language: r_1r_3 or r_2r_3 .

$r_1(r_2 + r_3)$: The first expression is always r_1 .
It is followed by either r_2 or r_3 .
There are two possibilities for this language: r_1r_2 or r_1r_3 .

2. Construct a regular expression for all words in which a appears tripled, if at all. This means that every clump of a's contains 3 or 6 or 9 or 12... a's.

$(aaa + b)^*$ or $(b + aaa)^*$ or $((aaa)^n b)^*$ or $(b^n (aaa)^n)^*$

3. Construct a regular expression for all words that contain at least one of the strings s_1 , s_2 , s_3 , or s_4 .

$(s_1 + s_2 + s_3 + s_4)(s_1 + s_2 + s_3 + s_4)^*$

4. Construct a regular expression for all words that contain exactly two b's or exactly three b's, not more.

$a^*ba^*ba^* + a^*ba^*ba^*ba^*$ or $a^*(b + \Lambda)a^*ba^*ba^*$
Note: Nothing was said about 'clumps of b's', so provide for a's in between.

5. Construct a regular expression for:
(i) all strings that end in a double letter.
(ii) all strings that do not end in a double letter.

(i)
 $(a + b)^*(aa + bb)$

(ii)
 $(a + b)^*(ab + ba) + a + b + \Lambda$
Note: Provide for strings containing zero or one letter too!

6. Construct a regular expression for all strings that have exactly one double letter in them.

$(b + \Lambda)(ab)^*aa(ba)^*(b + \Lambda) + (a + \Lambda)(ba)^*bb(ab)^*(a + \Lambda)$
'exactly one double letter' implies two equal touching letters; triples etc are excluded.

7. Construct a regular expression for all strings in which the letter b is never tripled. This means that no word contains the substring bbb.

$(\Lambda + b + bb)(a + ab + abb)^*$
Words can be empty and start and end with a or b.
A compulsory 'a' is inserted between all repetitions of b's.

8. Construct a regular expression for all words in which a is tripled or b is tripled, but not both. This means each word contains the substring aaa or the substring bbb but not both.

$(\Lambda + b + bb)(a + ab + abb)^*aaa(\Lambda + b + bb)(a + ab + abb)^* +$
 $(\Lambda + a + aa)(b + ba + baa)^*bbb(\Lambda + a + aa)(b + ba + baa)^*$

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