



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 proving a "distributive law" for regular expressions.)

Step-by-step solution

Step 1 of 2

The r_1, r_2, r_3 are three regular expressions and L_1, L_2, L_3 are three languages.

If regular expression r_1 generates the language L_1 , regular expression r_2 generates the language L_2 , and regular expression r_3 generates the language L_3 , then the $(r_1 + r_2)r_3$ generates to the $(L_1 + L_2)L_3$ language and $(r_1r_3 + r_2r_3)$ generates to the $(L_1L_3 + L_2L_3)$ language.

∴ $(r_1 + r_2)r_3$ and $(r_1r_3 + r_2r_3)$ generates the same language that

$$(r_1 + r_2)r_3 = (r_1r_3 + r_2r_3)$$



language L_1 , and regular expression r_3 generates the language L_3 , then the

∴ $(r_1 + r_2)r_3$ and $(r_1r_3 + r_2r_3)$ generates the same language that

$$(r_1 + r_2)r_3 = (r_1r_3 + r_2r_3)$$

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Step 2 of 2

Similarly $r_1(r_2 + r_3)$ generates the $L_1(L_2 + L_3)$ language and $(r_1r_2 + r_1r_3)$ generates the $L_1(L_2L_3 + L_3L_3)$ as

$$r_1(r_2 + r_3) = (r_1r_2 + r_1r_3)$$

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