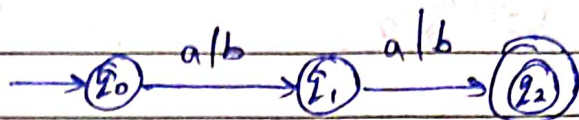


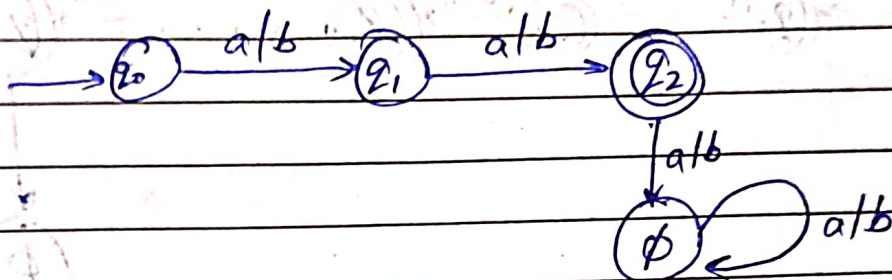
Tutorial 1

1. Regular expression = $(a|b)^2$

NFA

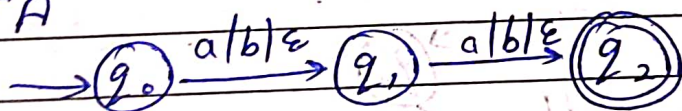


DFA

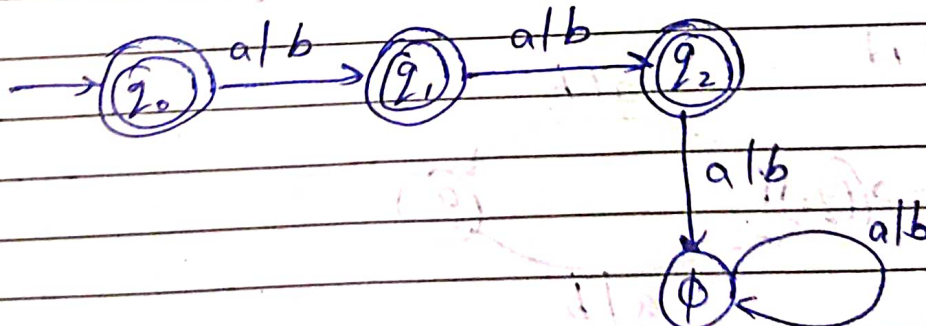


2. Regular expression = $(a|b) | \epsilon | (a|b)^2$
 $= (a|b|\epsilon)^2$

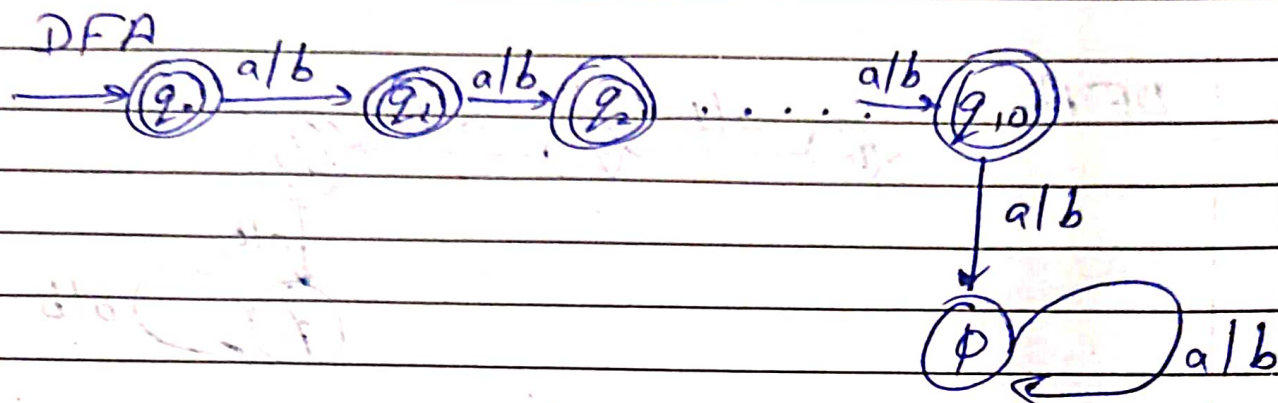
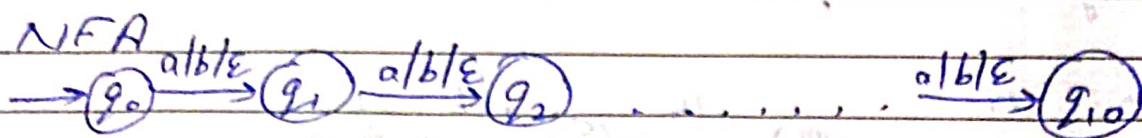
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DFA

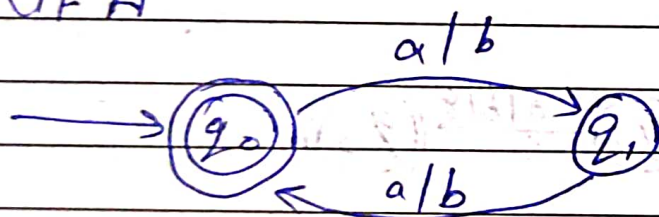


3. Regular Expression = $(a/b/\epsilon)^{10}$

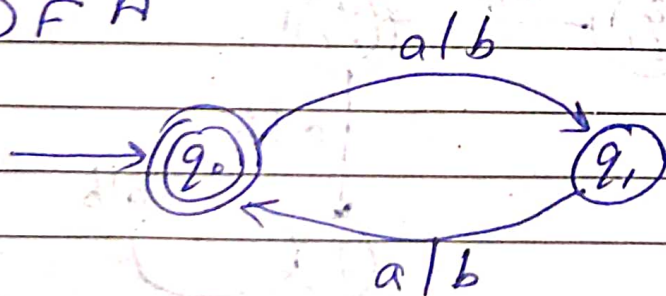


4. Regular expression = $((a/b)^2)^*$

NFA

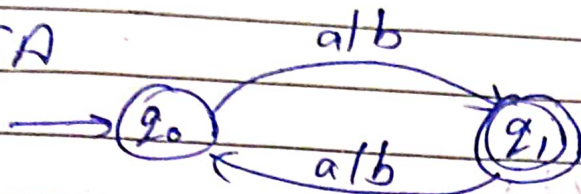


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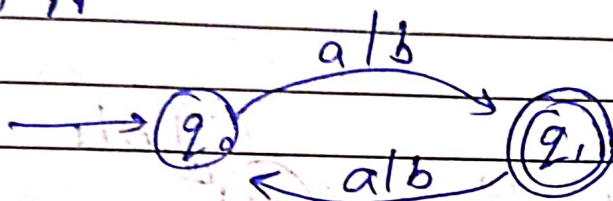


5. Regular Expression = $(a|b) (a|b)^2^*$

NFA

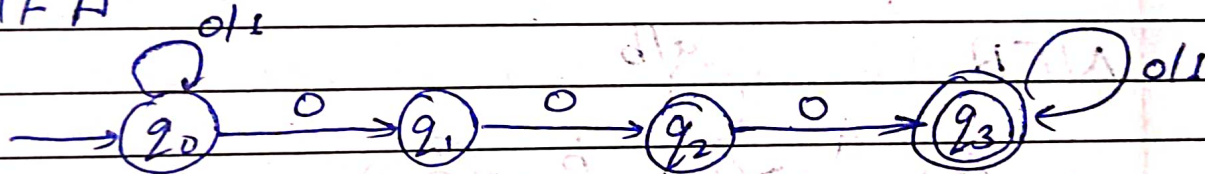


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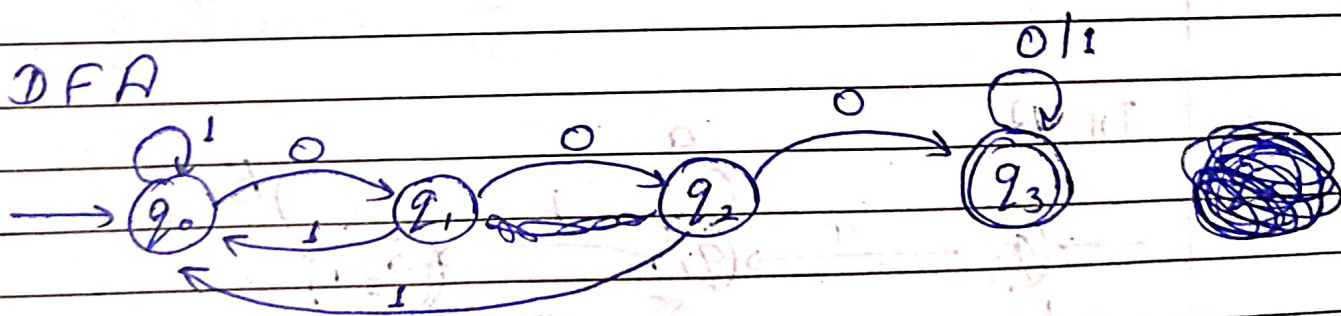


6. Regular Expression = $(0|1)^* 000 (0|1)^*$

NFA

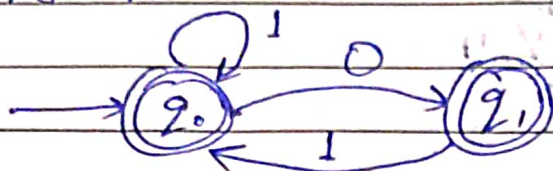


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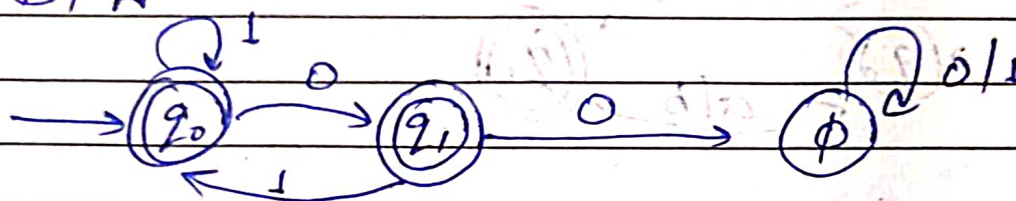


7. Regular Expression = $(1^* 0 1)^*$

NFA

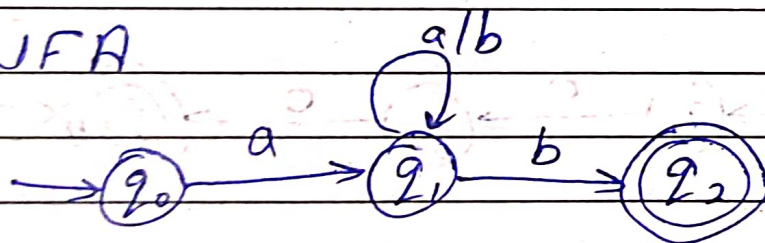


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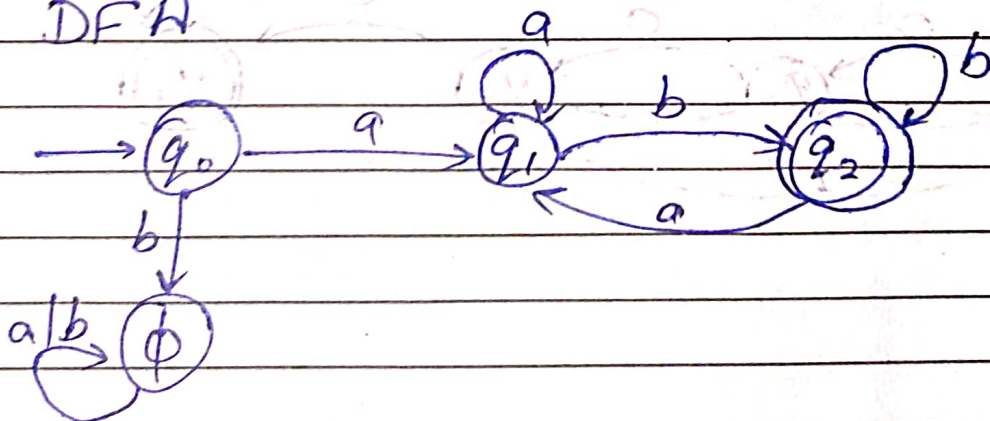


8. Regular Expression = $a (a|b)^* b$

NFA

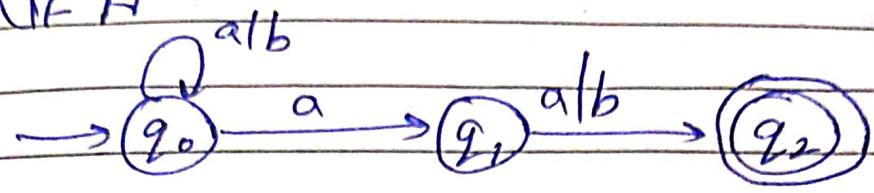


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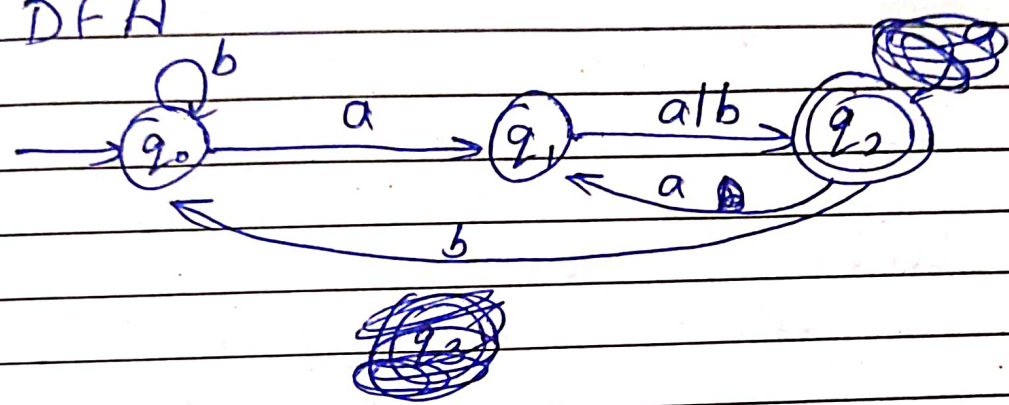


9. Regular Expression = $(a|b)^* a (a|b)$

NFA

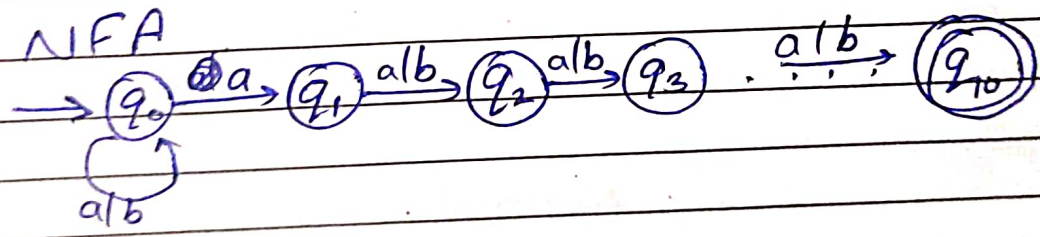


DFA



10. Regular Expression = $(a|b)^* a (a|b)^9$

NFA



DFA

