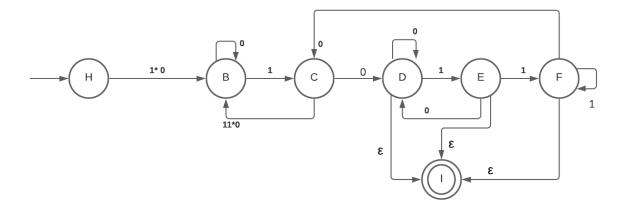
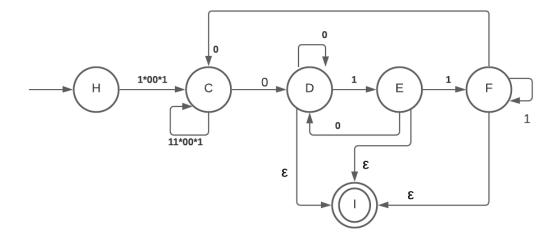
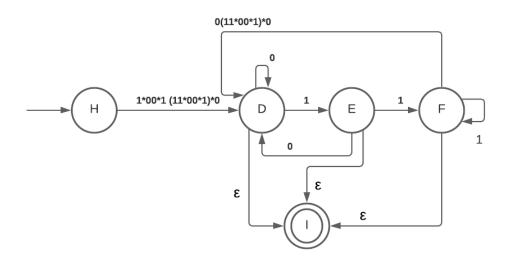


Step 2

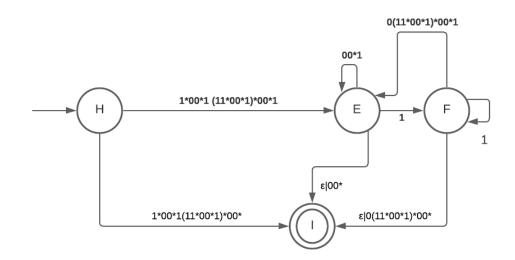


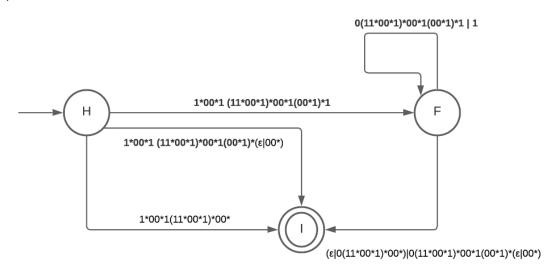


Step 4



Step 5





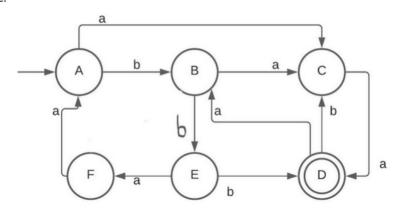
Step 7

 $1*00*1(11*00*1)*00* \mid 1*00*1(11*00*1)*00*1(00*1)*(\epsilon|00*) \mid 1*00*1(11*00*1)*00*1(00*1)*(\epsilon|00*) \mid 1*00*1(11*00*1)*00*1(00*1)*1 \mid 1)* ((\epsilon|0(11*00*1)*00*1(00*1)*00*1(00*1)*00*1(00*1)*(\epsilon|00*))$

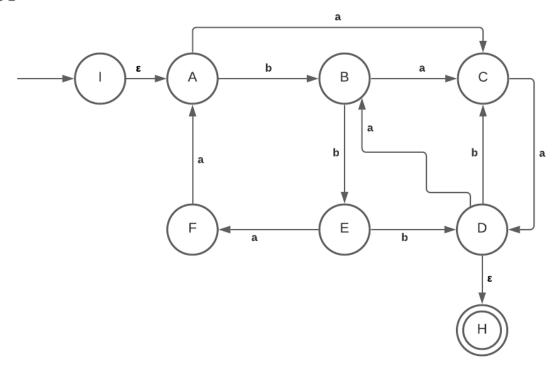


 $\label{eq:Regex:1*00*1(11*00*1)*00*1 (11*00*1)*00*1(00*1)*(ϵ|00*) | 1*00*1 (11*00*1)*00*1(00*1)*1 (0(11*00*1)*00*1(00*1)*1 | 1)* ((ϵ|0(11*00*1)*00*)|0(11*00*1)*00*1(00*1)*(ϵ|00*))$

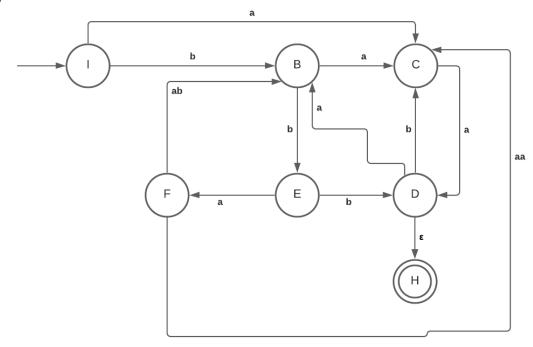
2.



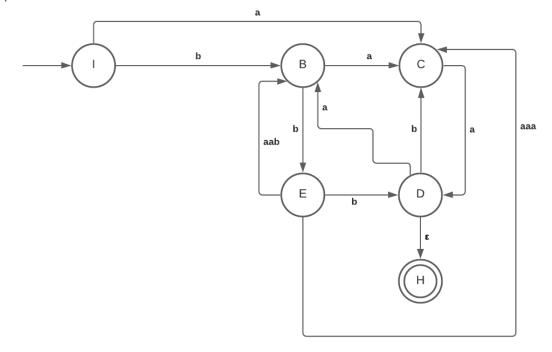
Step 1



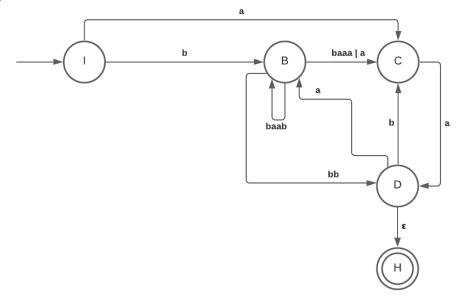
Step 2



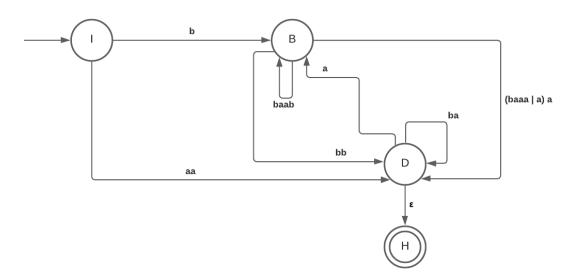
Step 3

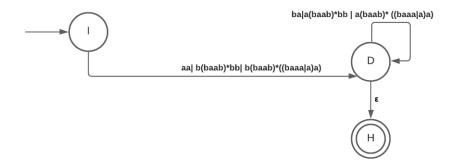


Step 4

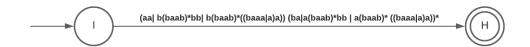


Step 5



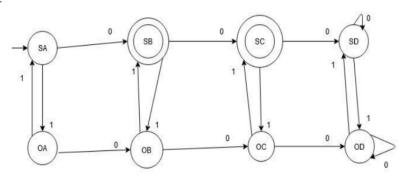


Step 7

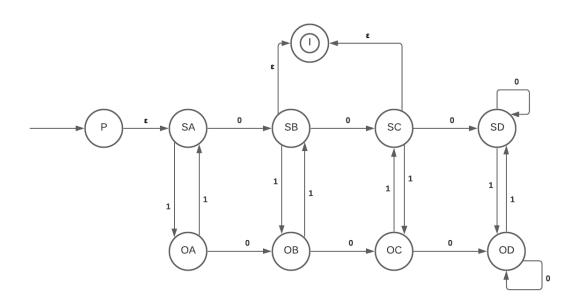


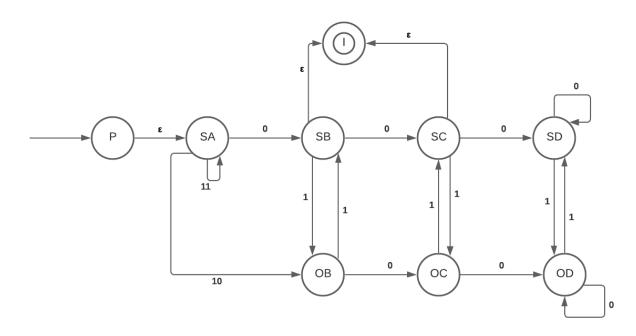
Regex: (aa| b(baab)*bb| b(baab)*((baaa|a)a)) (ba|a(baab)*bb| a(baab)* ((baaa|a)a))*

3.

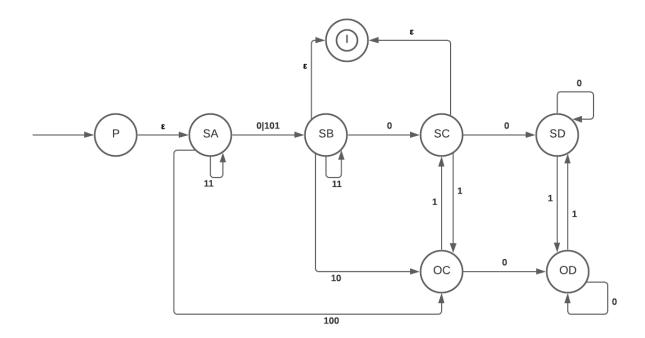


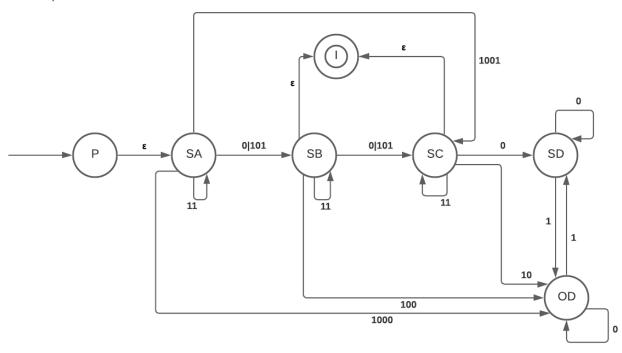
Step 1

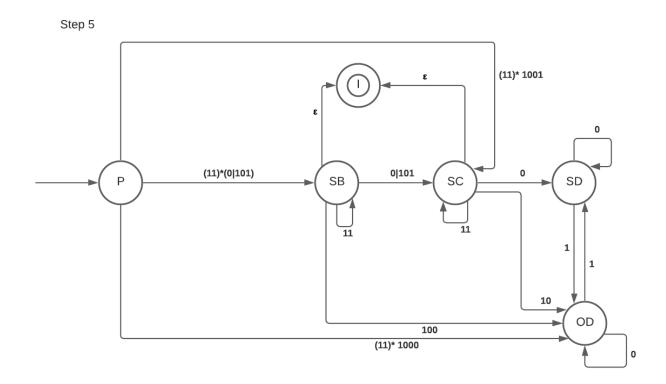


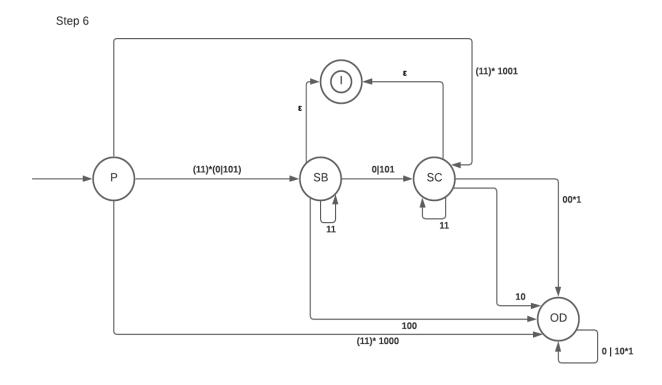


Step 3

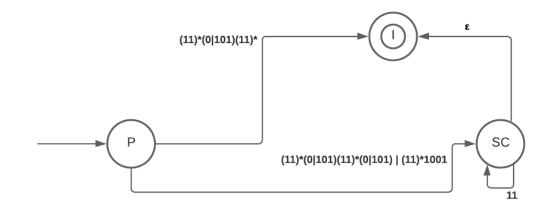




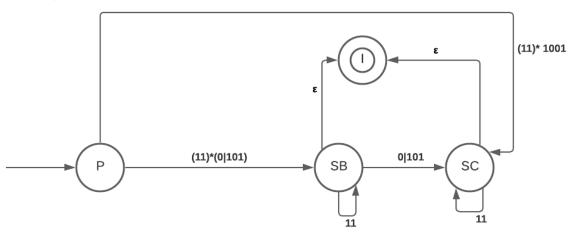




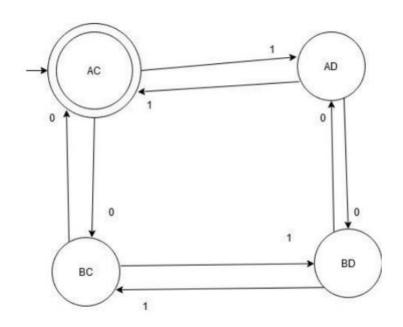
Step 9

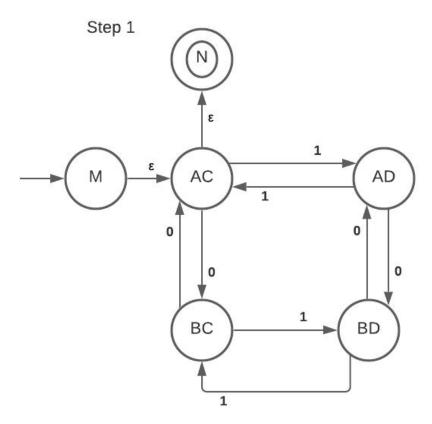


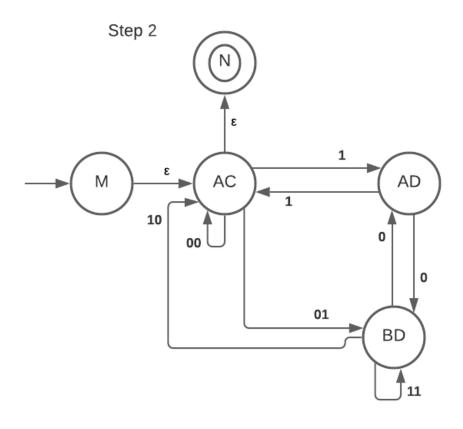
Step 8

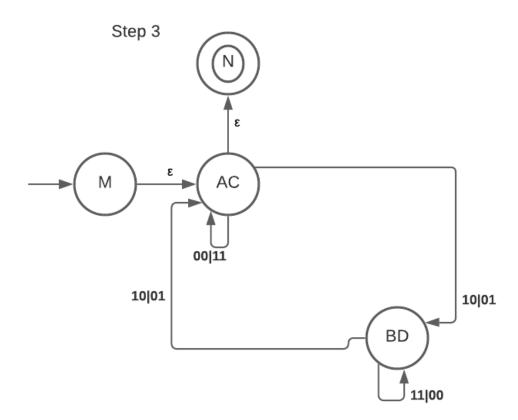


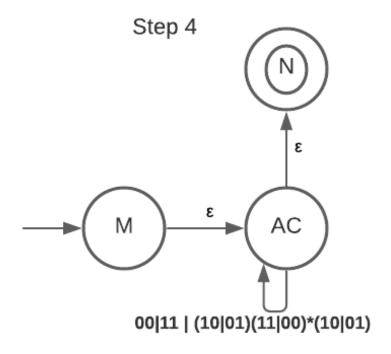
Step 7



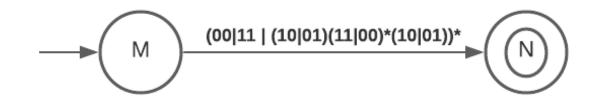




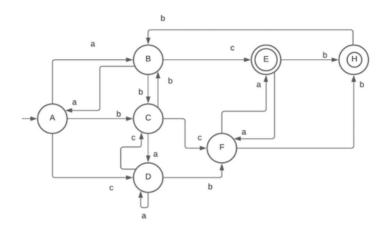


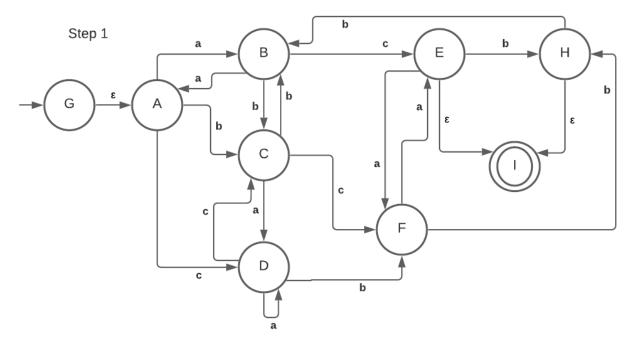


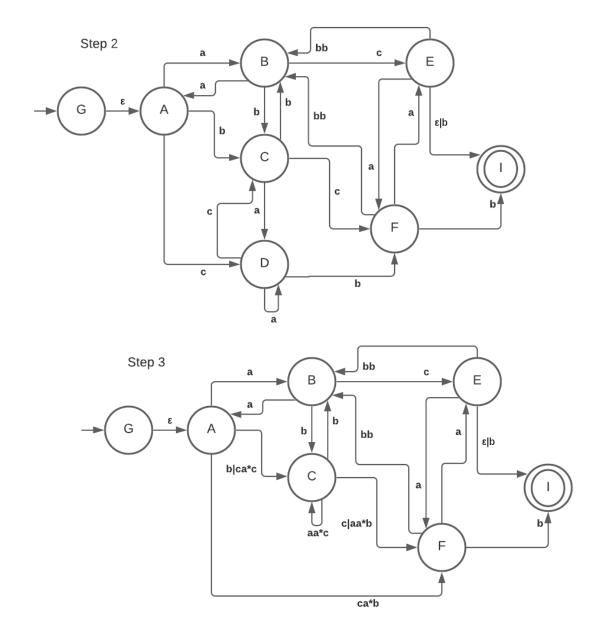
Step 5

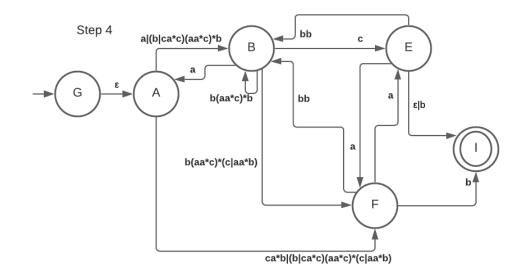


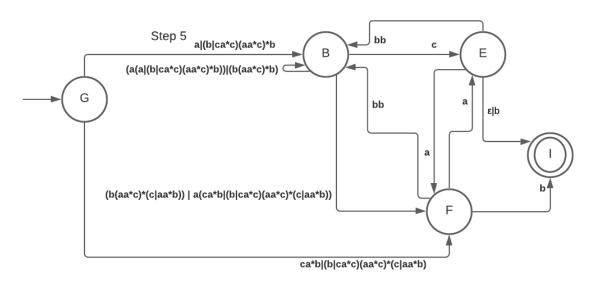
Question 5

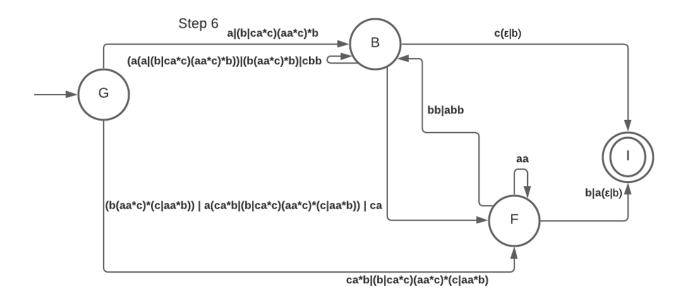




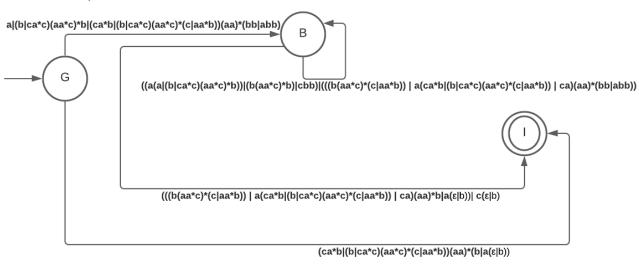








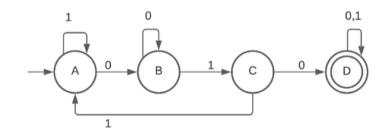
Step 7

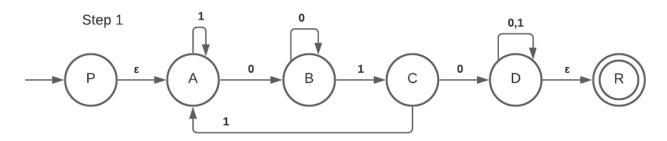


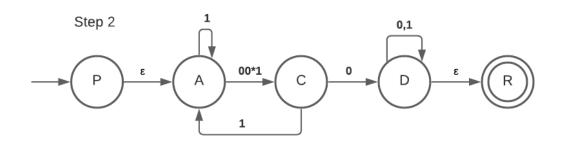
Step 8

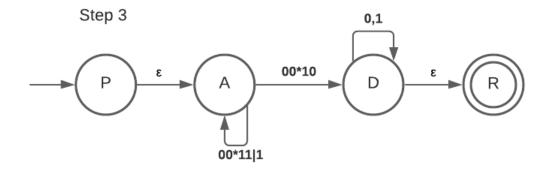


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Regex: ((ca*b|(b|ca*c)(aa*c)*(c|aa*b))(aa)*(b|a(ε|b))) |
(a|(b|ca*c)(aa*c)*b|(ca*b|(b|ca*c)(aa*c)*(c|aa*b))(aa)*(bb|abb))(((a(a|(b|ca*c)(aa*c)*b))|
(b(aa*c)*b)|cbb)|(((b(aa*c)*(c|aa*b)) | a(ca*b|(b|ca*c)(aa*c)*(c|aa*b)) |
ca)(aa)*(bb|abb)))*((((b(aa*c)*(c|aa*b)) | a(ca*b|(b|ca*c)(aa*c)*(c|aa*b)) |
ca)(aa)*b|a(ε|b))| c(ε|b))
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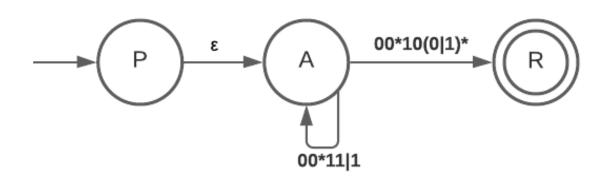




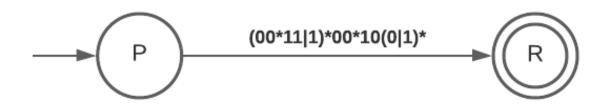


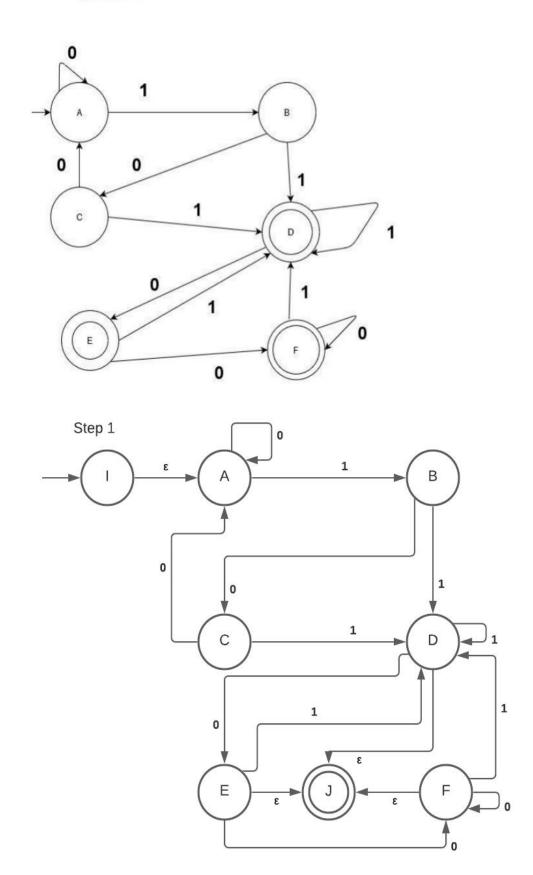


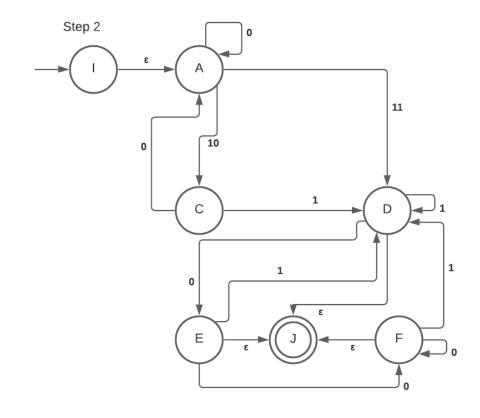
Step 4

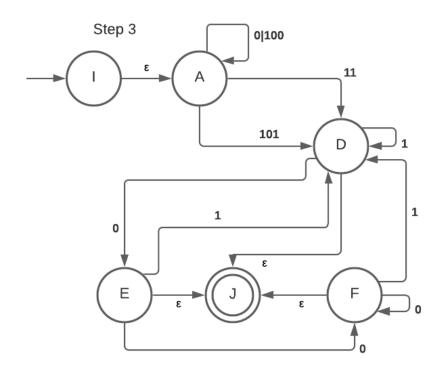


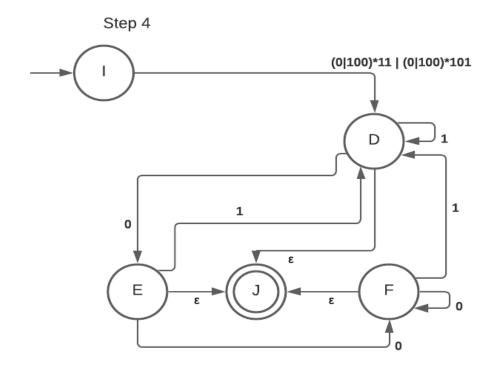
Step 5



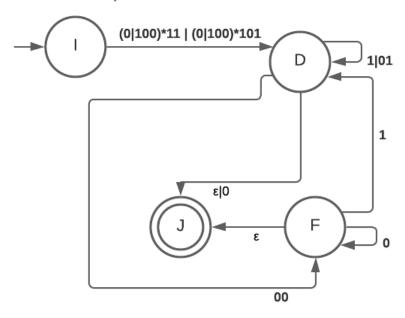




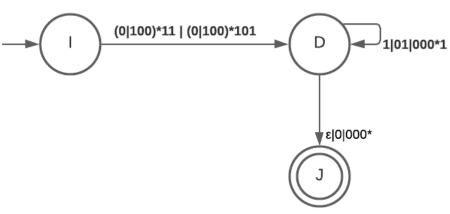




Step 5

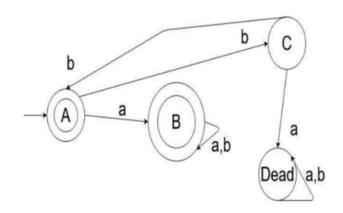


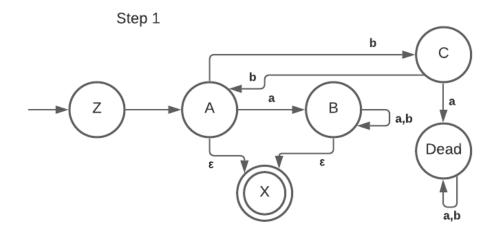
Step 6



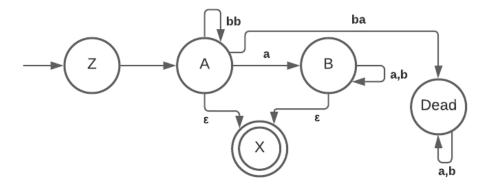
Step 7



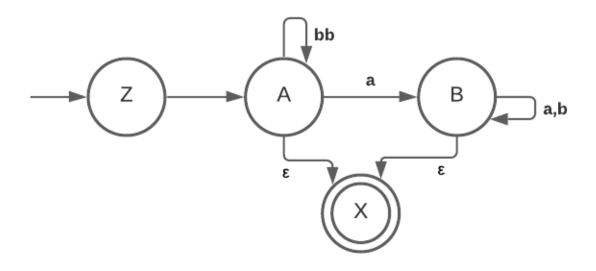




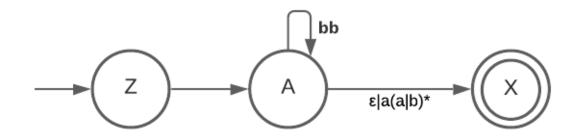
Step 2



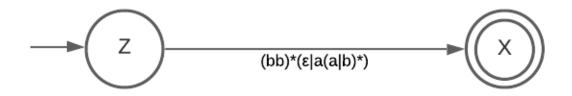
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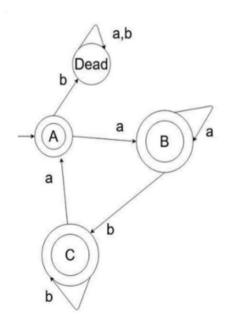


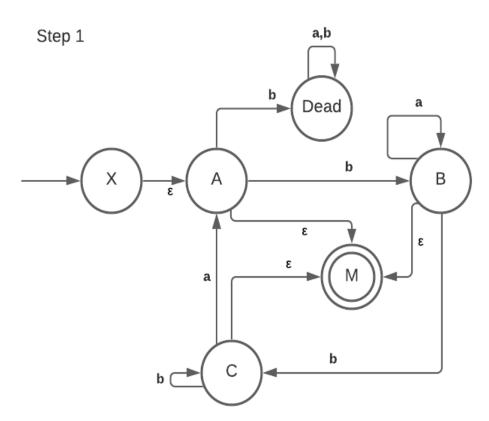
Step 4

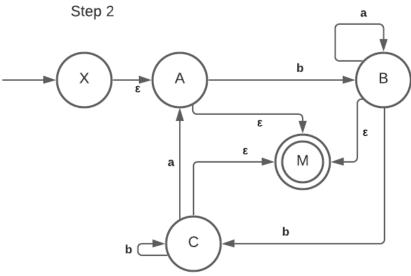


Step 5

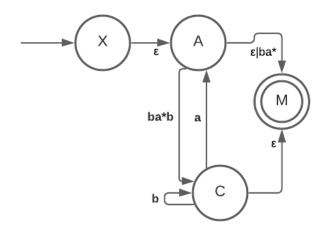




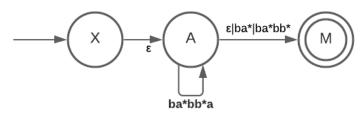




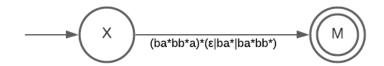
Step 3

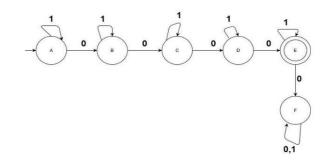


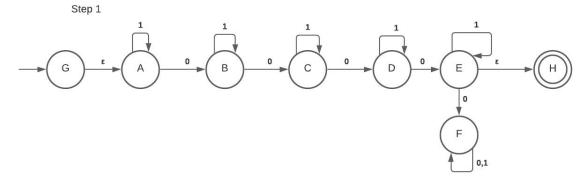
Step 4

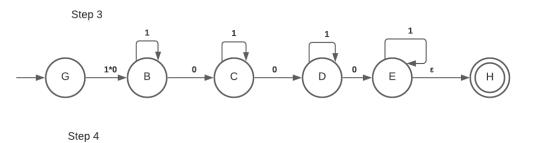


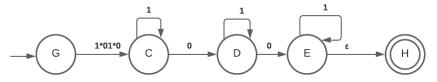
Step 5



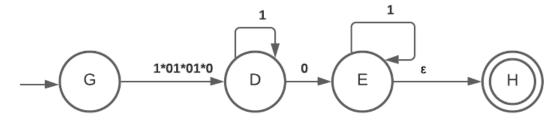




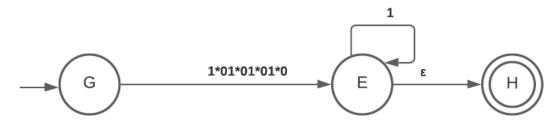




Step 5



Step 6



Step 7

