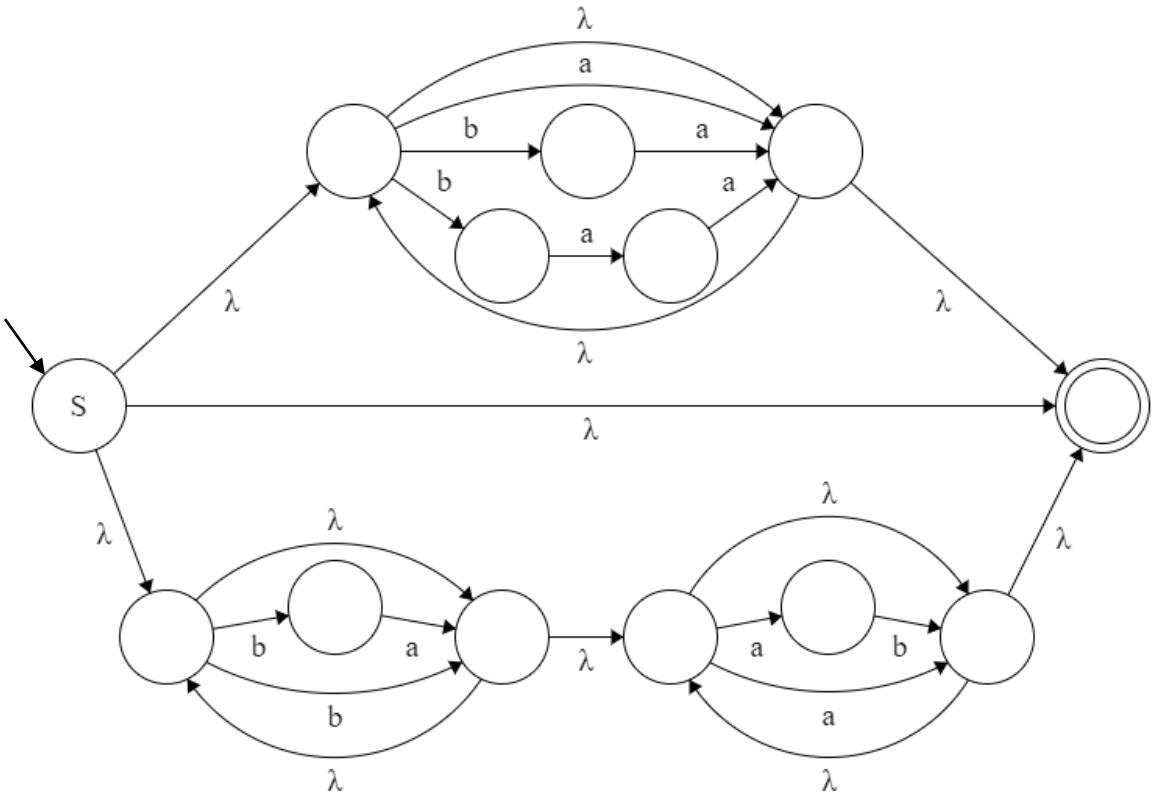
Taylor Austin

6/30/2016

1)

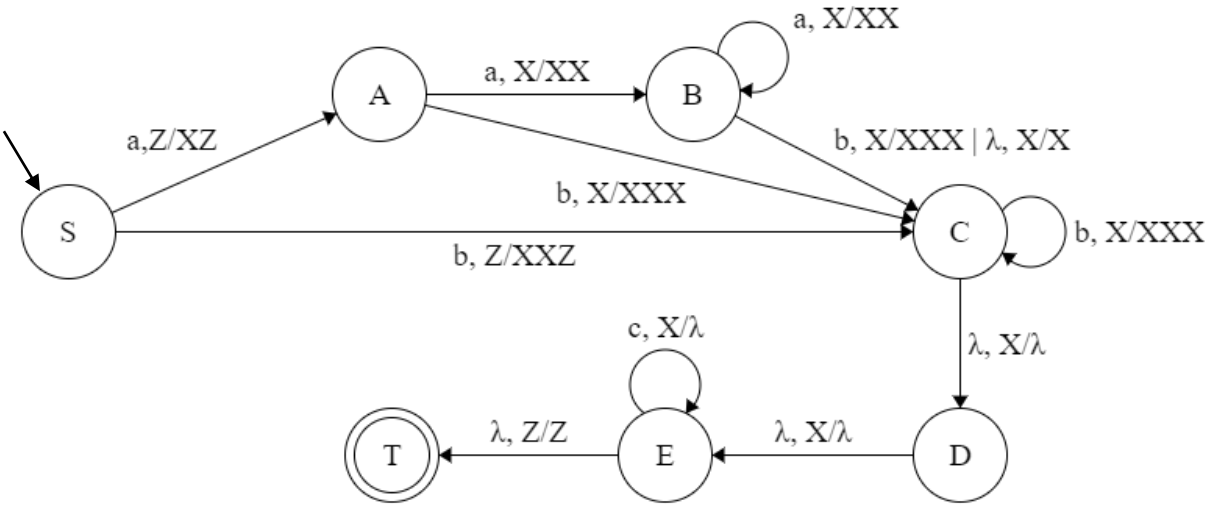


2)

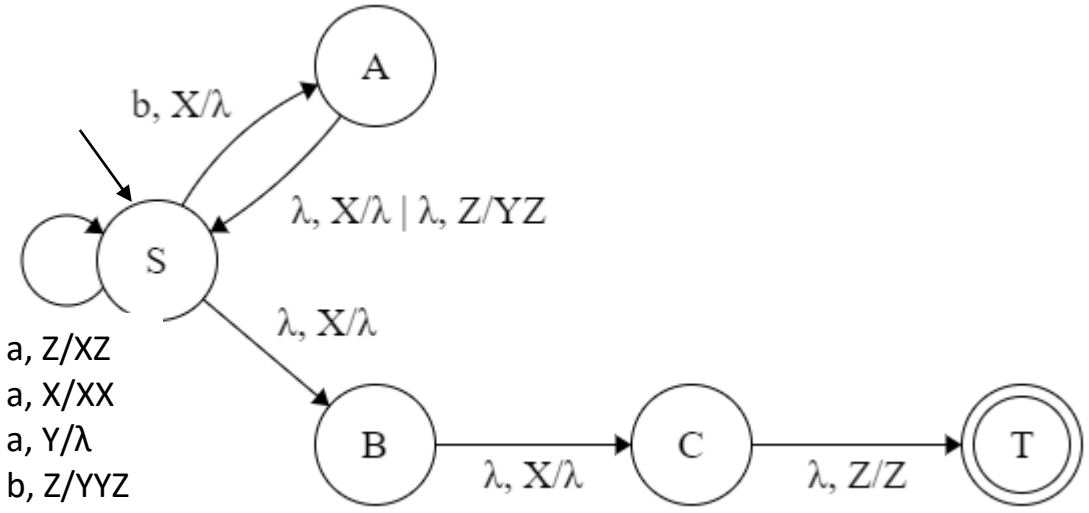
S --> aA|bY
A --> aA|bB
B --> aA|bB|λ
Y --> aZ|bY
Z --> aZ|bY|λ

3) a(a+bb*a)*bb* + b (b+aa*b)aa*

4)



5)



a, Z/XZ
a, X/XX
a, Y/λ
b, Z/YYZ
b, Y/YYY

6) S → aaA | abBc | bB

A → aAc | λ | B

B → bBcc | λ

7) S → aaB | aBa | aaB |

B → baaB | baBa | bBaa | Bbaa | abaB | abBa | aBba | Baba | aabB | aaBb | aBab | Baab | λ