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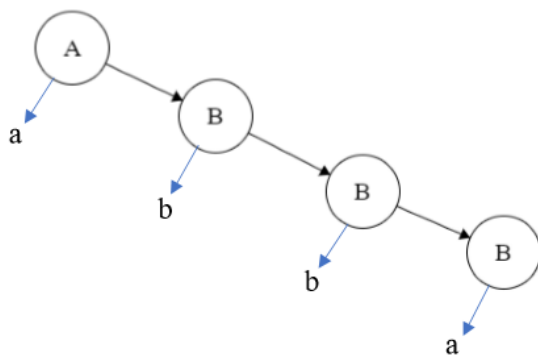
Student ID: 300492604

1) $\text{file}\{1\}[A-Za-z,\backslash s-]^+.pdf\{1\}$

or

$\text{file}[A-Za-z,\backslash s-]^+.pdf$

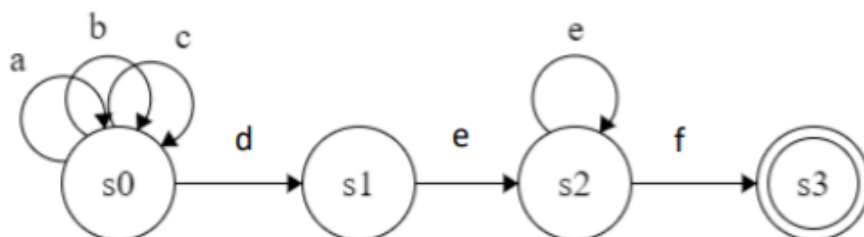
2)



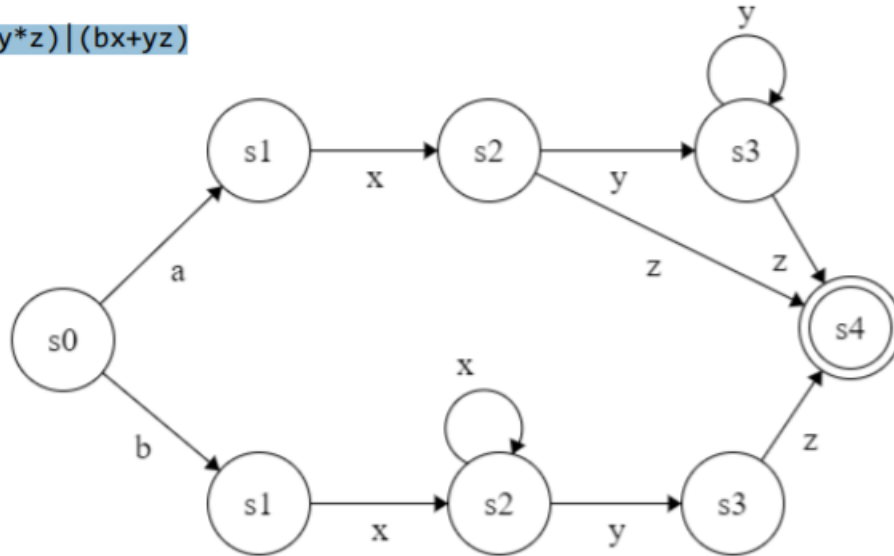
3) $(ab)^+c^*$

Any string with at least one occurrence of small caps "a" & "b", and "c" that occurs any number of times

4) $(a|b|c)^*d(e^+)f$



5. $(axy^*z) \mid (bx+yz)$



6)a. Valid

b. Valid

c. Invalid

d. Valid

e. Invalid

f. valid

g. Invalid

7) $\text{NAMEOF} ::= [a-z]^+[A-Z]$

8) Factoring common parts

$T ::= \text{NAMEOF} \mid T Z \mid \text{"(ie." } T \text{)"}$

$Z ::= \text{"with" } T \mid \text{"without" } T$

$\text{NAMEOF} ::= [a-z]^+[A-Z]$

9) Factoring common parts

$LIST ::= NUM \mid L$ OR $LIST ::= NUM \mid [“,” LIST]$

$L ::= \text{""} \mid \text{“,”} LIST$ $NUM ::= [0-9]^+$

$NUM ::= [0-9]^+$