2602168234

1. $X(x.y \mid y.x)^{+}.X^{*}.Y.\#$
   1 2 3 4 5 6 7 8

(A) Followpos

Followpos 1 : 2,4
Followpos 2 : 3
Followpos 3 : 2,4,6,7
Followpos 4 : 1,5
Followpos 5 : 2,4,6,7
Followpos 6 : 6,7
Followpos 7 : 8
Followpos 8 :

(B) Syntax Tree

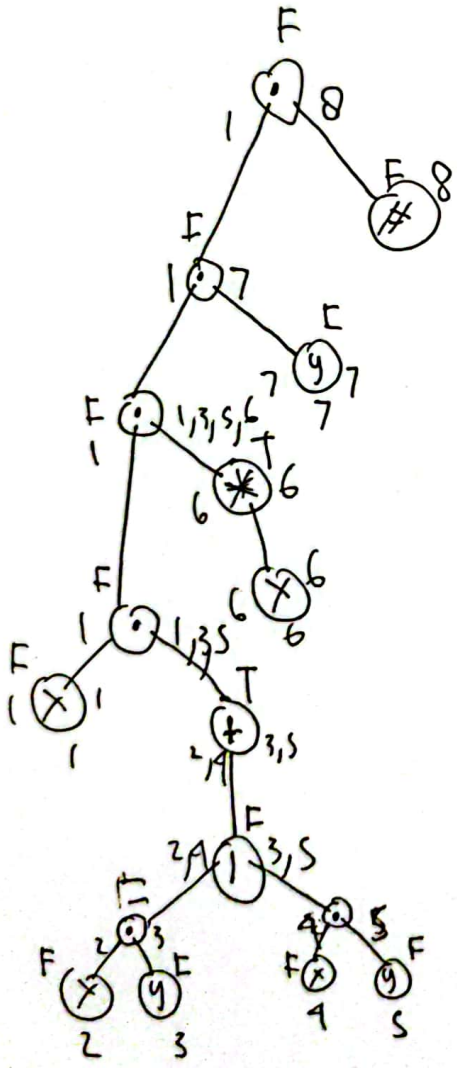
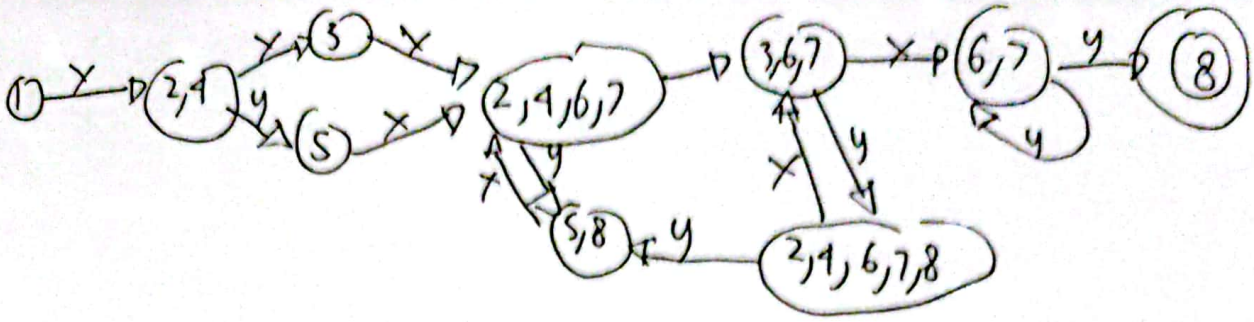


table	X	y
1	2,4	—
2,4	3	2,5
3	—	2,4,6,7
2,5	3,4,6,7	—
2,4,6,7	3,6,7	2,5,8
~~2,4,5,8~~	~~3,6,7~~	2,4,6,7,8
3,6,7	2,4,6,7	—
5,8		8
6,7	6,7	5,8
2,4,6,7,8	3,6,7	—
8	—	

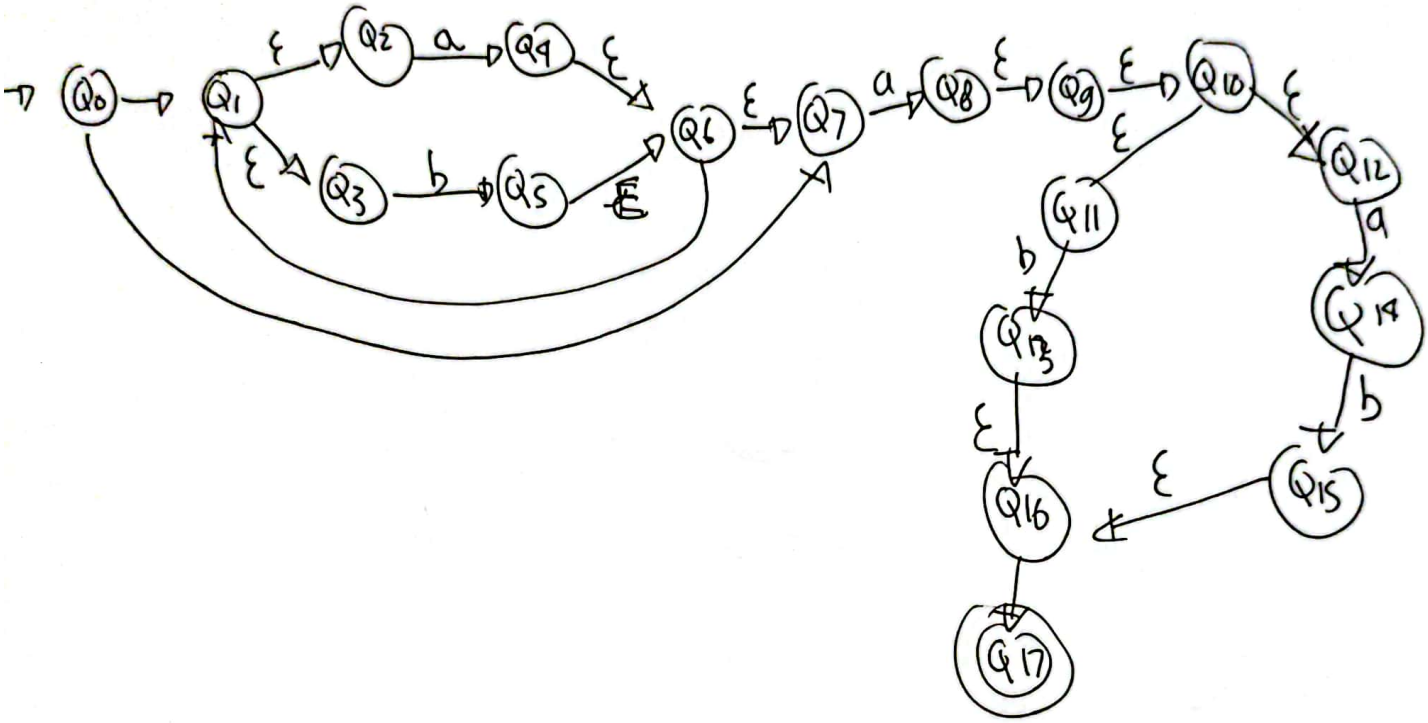
Dipindai dengan CamScanner

c.



2. $(a|b)^* a\,(b|ab)^+$

(a). Thompson Construction



Dipindai dengan CamScanner

b.

ε close $(Q_0) = 0, 1, 2, 3, 7$

ε close $(Q_1) = 1, 2, 3$

ε close $(Q_2) = 2$

ε close $(Q_3) = 3$

ε close $(Q_4) = 4, 6, 7$

ε close $(Q_5) = 5, 6, 7$

ε close $(Q_6) = 6, 7$

ε close $(Q_7) = 7$

ε close $(Q_8) = 8, 9, 10, 11, 12$

ε close $(Q_9) = 9, 10, 11, 12$

ε close $(Q_{10}) = 10, 11, 12$

ε close $(Q_{11}) = 11$

ε close $(Q_{12}) = 12$

ε close $(Q_{13}) = 13, 16, 17$

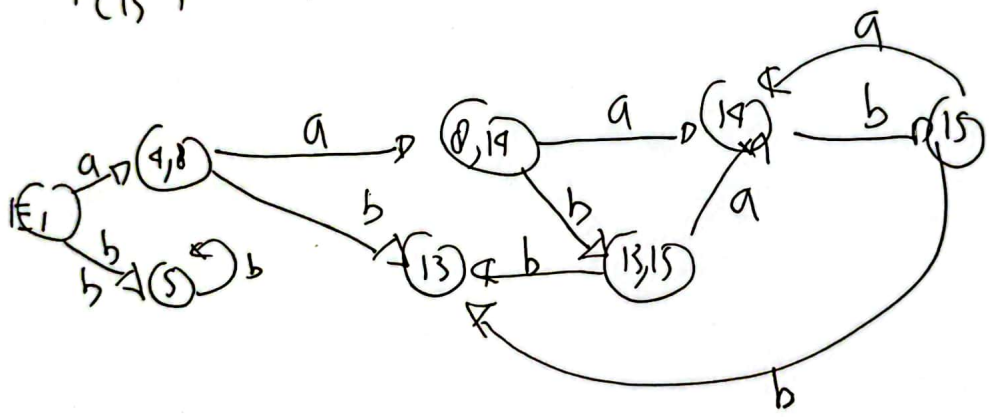
ε close $(Q_{14}) = 14$

ε close $(Q_{15}) = 15, 16, 17, 13, 10$

ε close $(Q_{16}) = 16, 17, 9, 10, 11, 12$

ε close $(Q_{17}) = 17$

state	a	b
ε_2	4,8	5
$\varepsilon_{4,8}$	8,14	13
ε_5	—	5
$\varepsilon_{8,14}$	14	13,15
ε_{13}	—	—
ε_{14}	—	15
$\varepsilon_{13,15}$	14	13
ε_{15}	14	13



Dipindai dengan CamScanner