NIM : 2602061712

Nama : Jovita Woisakhi

a) 1 = {2,4}

2 = {3}

3 = {2,4,6,7}

4 = {5}

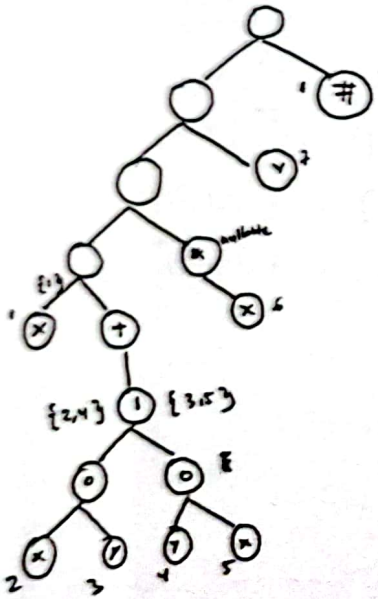
5 = {2,4,6,7}

6 = {6,7}

7 = {8}

8 = { }

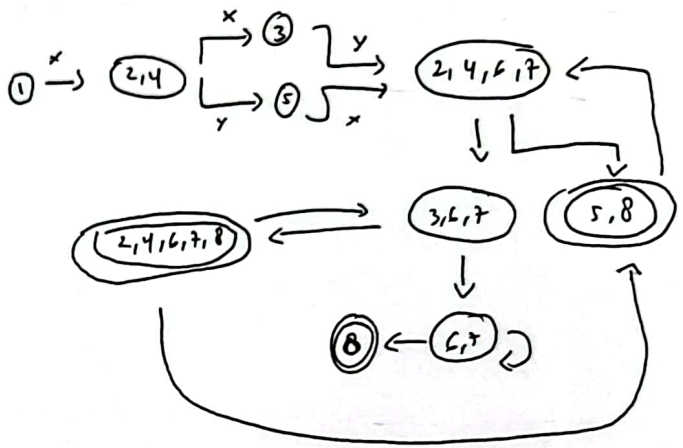
b) Tree



firstpos = {x}

Lastpos = {x y}

RE

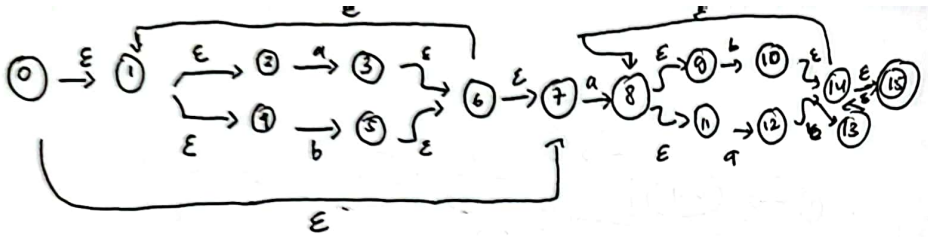


Table

state	x	y
{1}	{2,4}	∅
{2,4}	{5}	{5}
{3}	∅	{2,4,6,7}
{2,4,6,7}	{3,6,7}	{5,8}
{3,6,7}	{6,7}	{2,4,6,7,8}
{5,8}	{2,4,6,7}	∅
{6,7}	{6,7}	{8}
{2,4,6,7,8}	{3,6,7}	{5,8}
{8}	∅	∅

Dipindai dengan CamScanner

a)



ε - NFA

Node	Eclose Fault
0	{0,1,2,4,7}
1	{1,2,4}
2	{2}
3	{1,2,3,4,6,7}
4	{4}
5	{1,2,4,5,6,7}
6	{1,2,4,6,7}
7	{7}
8	{8,9,11}
9	{9}
10	{8,9,10,11,14,15}
11	{11}
12	{12}
13	{8,9,11,13,14,15}
14	{8,9,11,14}
15	{15}

Start = E_{C0} = {0,1,2,4,7}^{1}

1a. $\delta(E_{C0}, a)$ = {3,8}^{2} = {1,2,3,4,6,7,8,9,11}^{2}

1b. $\delta(E_{C0}, b)$ = {5}^{3} = {1,2,4,5,6,7}^{3}

2a. $\delta(E_C\{3,8\}, a\}$ = {3,8,12}^{4} = {1,2,4,6,7,8,9,11,12}^{4}

2b. $\delta(E_C\{3,8\}, b)$ = {5,10}^{5} = {1,2,4,5,6,7,8,9,10,11,14,15}^{5}

3a. $\delta(E_C\{5\}, a)$ = {3,8}^{2}

3b. $\delta(E_C\{5\}, b\}$ = {5}^{3}

4a. $\delta(E_C\{3,8,12\}, a)$ = {3,8,12}^{4}

4b $\delta(E_C\{3,8,12\}b)$ = {5,10,13}^{6} = {1,2,4,5,6,7,8,9,10,11,12,13,15}^{6}

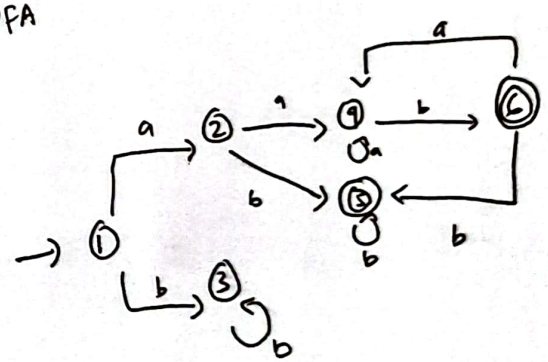
5a. $\delta(E_C\{5,10\}, a)$ = {3,8,12}^{4}

5b $\delta(E_C\{5,10\}, b)$ = {5,10}^{5a}

6a $\delta(E_C\{5,10,13\}, a)$ = {3,8,12}^{4}

6b $\delta(E_C\{5,10,13\}, b)$ = {5,10}^{5a}

DFA



Dipindai dengan CamScanner