$a(a|b)^*a\#$

{1} • {5}

{1} • {4}   {6} # {5}

{1} • {1,2,3}   {4} a {4}

{1} a {1}   {2,3} * {2,3}

{2,3} | {2,3}

{2} a {2}   {3} b {3}

n	FollowPos
1	{2,3,4}
2	{2,3,4}
3	{2,3,4}
4	{5}
5	{}
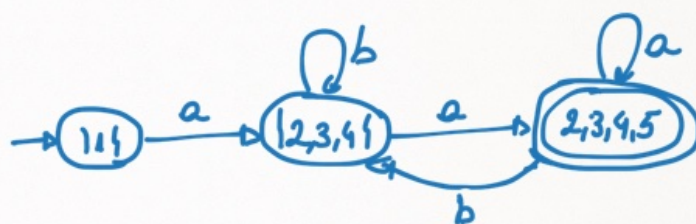
$aa^*(bb^*aa^*b)^*\#$
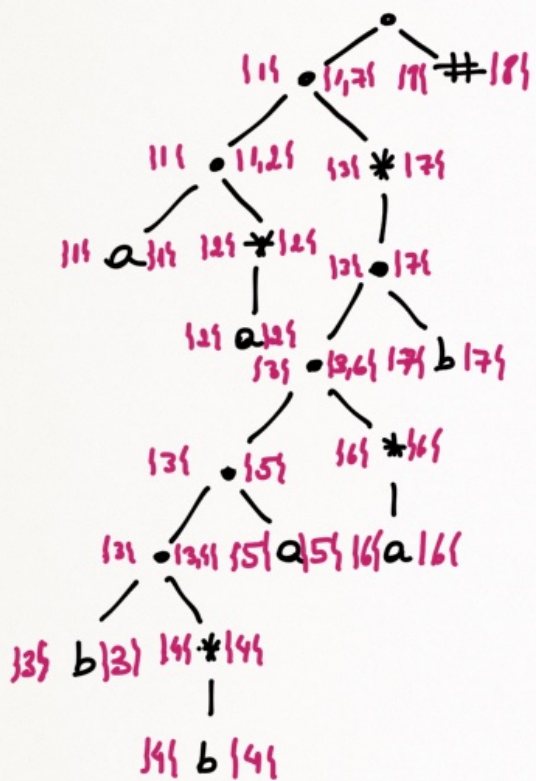
n	FollowPos
1	{2,3,8}
2	{2,3}
3	{4,5,7}
4	{4,5}
5	{6,7}
6	{6,7}
7	{3,8}
8	∅
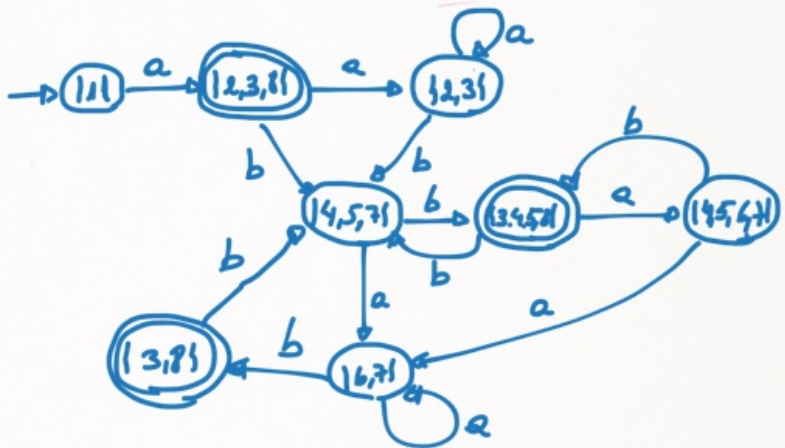
NÃO É MÍNIMO

AF MÍNIMO!

$(\varepsilon \mid b) \cdot (ab)^* \cdot (\varepsilon \mid a) \#$

Syntax tree (magenta):

- $\{1,2,3,5,6,7\}$ • $\{1,2,4,5,6,7\}$
  - $\{1,2,3,5,6\}$ • $\{1,2,4,5,6\}$ $\{7\}\,\#\,\{7\}$
    - $\{1,2,3\}$ • $\{1,2,4\}$ $\{5,6\}$ | $\{5,6\}$
      - $\{1,2\}$ | $\{1,2\}$ $\{3\}$ * $\{4\}$ $\{5\}\,\varepsilon\,\{5\}$ $\{6\}\,a\,\{6\}$
        - $\{1\}\,\varepsilon\,\{1\}$ $\{2\}\,b\,\{2\}$
        - $\{3\}$ • $\{4\}$
          - $\{3\}\,a\,\{3\}$ $\{4\}\,b\,\{4\}$

Follow Pos table:
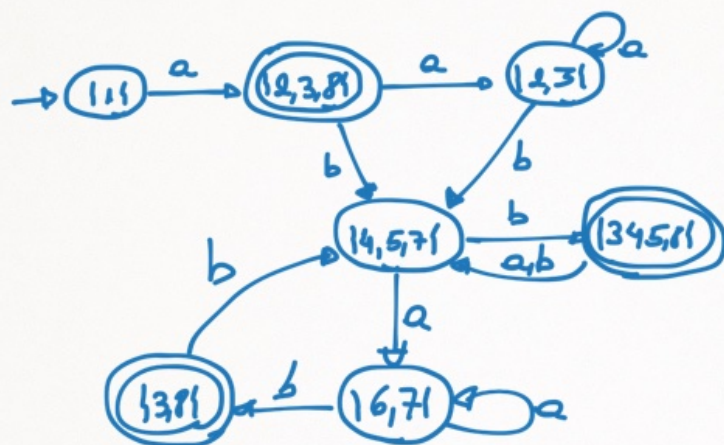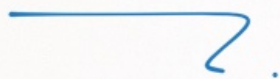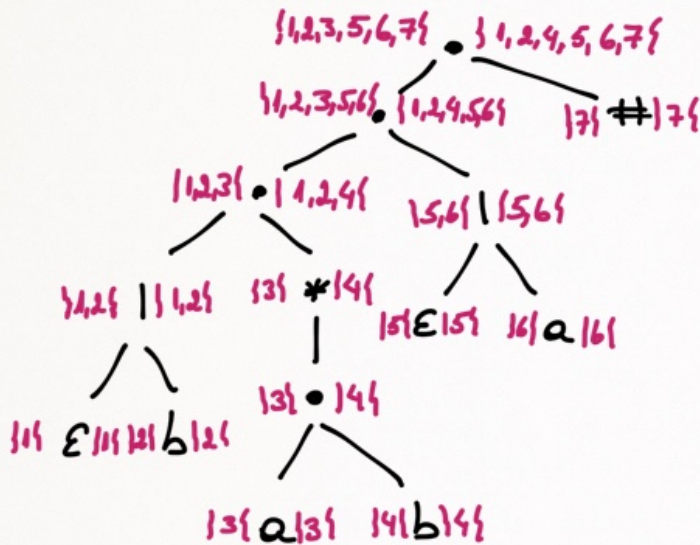
n	Follow Pos
1	$\{3, 5, 6, 7\}$
2	$\{3, 5, 6, 7\}$
3	$\{4\}$
4	$\{3, 5, 6, 7\}$
5	$\{7\}$
6	$\{7\}$
7	$\emptyset$

DFA (blue):

- start → $\{1,2,3,5,6,7\}$
- $\{1,2,3,5,6,7\}$ --a--> $\{4,7\}$
- $\{1,2,3,5,6,7\}$ --b--> $\{3,5,6,7\}$
- $\{4,7\}$ --b--> $\{3,5,6,7\}$
- $\{3,5,6,7\}$ --a--> $\{4,7\}$