

$S \rightarrow SS+$ \rightarrow ①
 $S \rightarrow SS*$ \rightarrow ②
 $S \rightarrow a$ \rightarrow ③

State 0

$S' \rightarrow \cdot S, \$$
 $S \rightarrow \cdot SS+, a$
 $S \rightarrow \cdot SS*, a$
 $S \rightarrow \cdot a, a$

State 2

$S \rightarrow a \cdot, a$

a

State 1

$S' \rightarrow S \cdot, \$$
 $S \rightarrow S \cdot S+, a$
 $S \rightarrow S \cdot S*, a$
 $S \rightarrow \cdot SS+, +/x/a$
 $S \rightarrow \cdot SS*, +/x/a$
 $S \rightarrow \cdot a, +/x/a$

S

State 3

$S \rightarrow SS \cdot, a$
 $S \rightarrow SS \cdot *, a$
 $S \rightarrow S \cdot S+, +/x/a$
 $S \rightarrow S \cdot S*, +/x/a$
 $S \rightarrow \cdot SS+, +/x/a$
 $S \rightarrow \cdot SS*, +/x/a$
 $S \rightarrow \cdot a, +/x/a$

State 7

$S \rightarrow SS \cdot, +/x/a$
 $S \rightarrow SS \cdot *, +/x/a$
 $S \rightarrow S \cdot S+, +/x/a$
 $S \rightarrow S \cdot S*, +/x/a$
 $S \rightarrow \cdot SS*, +/x/a$
 $S \rightarrow \cdot SS+, +/x/a$
 $S \rightarrow \cdot a, +/x/a$

State 6

$S \rightarrow SS* \cdot, a$

State 5

$S \rightarrow SS+ \cdot, a$

State 4

$S \rightarrow a \cdot, +/x/a$

$S \rightarrow SS* \cdot, +/x/a$

State 9

+

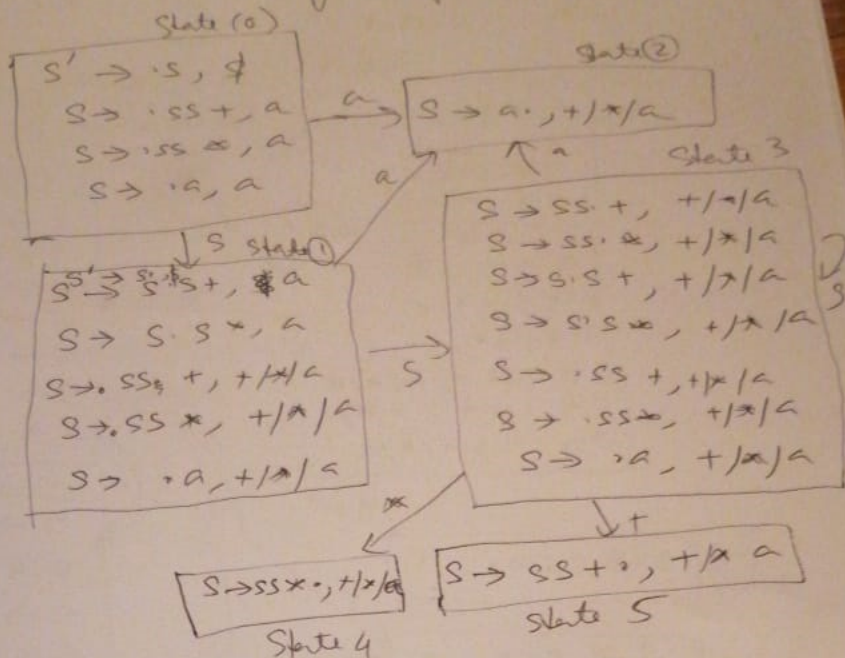
$S \rightarrow SS+ \cdot, +/x/a$

State 8

States
 Merge (3,7),
 (5,8)
 (6,9)
 (2,4)

After State Merging

first(s) = a



State	Action				GOTO
	a	+	*	S	
0	S2				1
1	S2				3
2				acc	
3	S2	S4	SS		3
4	r1	r1	r1		
5	r2	r2	r2		