

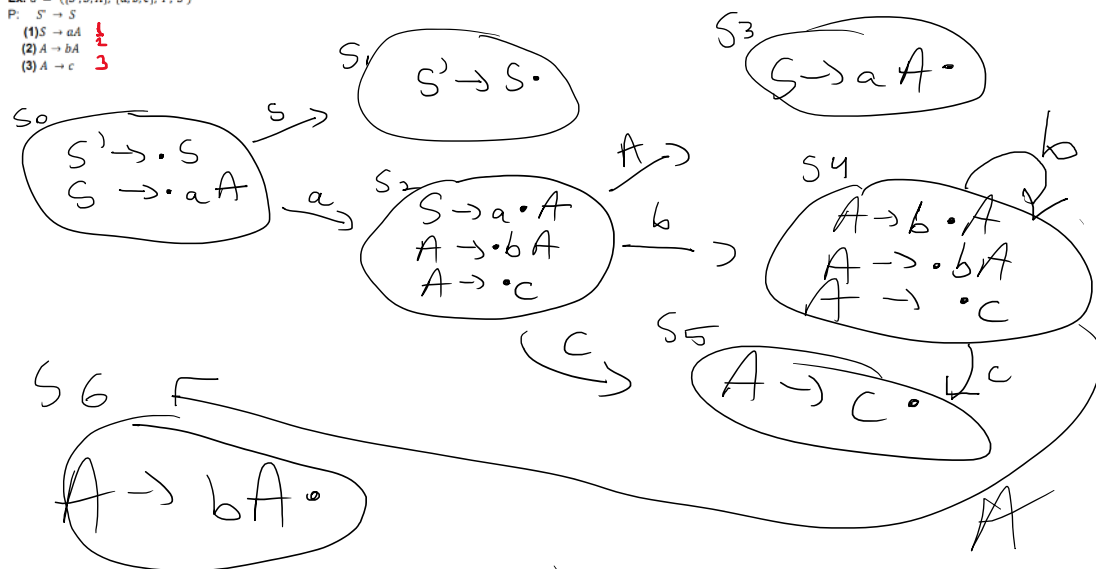
Ex. $G = ((S', S, A), \{a, b, c\}, P, S')$

P: $S' \rightarrow S$

(1) $S \rightarrow aA$

(2) $A \rightarrow bA$

(3) $A \rightarrow c$



closure($S' \rightarrow \cdot S$)

\Rightarrow

- $S' \rightarrow \cdot S$
- $S \rightarrow \cdot aA$

Action

$S \rightarrow \cdot A$

goto

| | a | b | c | S | A |
|-------|---|---|---|-------|---|
| S_2 | | | | S_1 | |

Items

S_0

shift

S_1

accept

S_2

shift

S_3

reduce 1

S_4

shift

S_5

reduce 3

S_6

reduce 2

S_4

S_5

S_3

S_4

S_5

S_6

| Stack | Input | Output |
|--------------------------------|----------|------------|
| \$ | a b c \$ | ϵ |
| \$ A O a s 2 | b b c \$ | ϵ |
| \$ A O a s 2 b s 4 | b c \$ | |
| \$ s o a s 2 b s 4 b s 4 | c \$ | |
| \$ s o a s 2 b s 4 b s 4 c s 5 | \$ | |
| \$ s o a s 2 b s 4 b s 4 A s 6 | | 3 |
| \$ s o a s 2 b s 4 A s 6 | | 23 |
| \$ s o a s 2 A s 3 | | 223 |
| \$ s o s 1 | | 1223 |
| \$ accept | | |