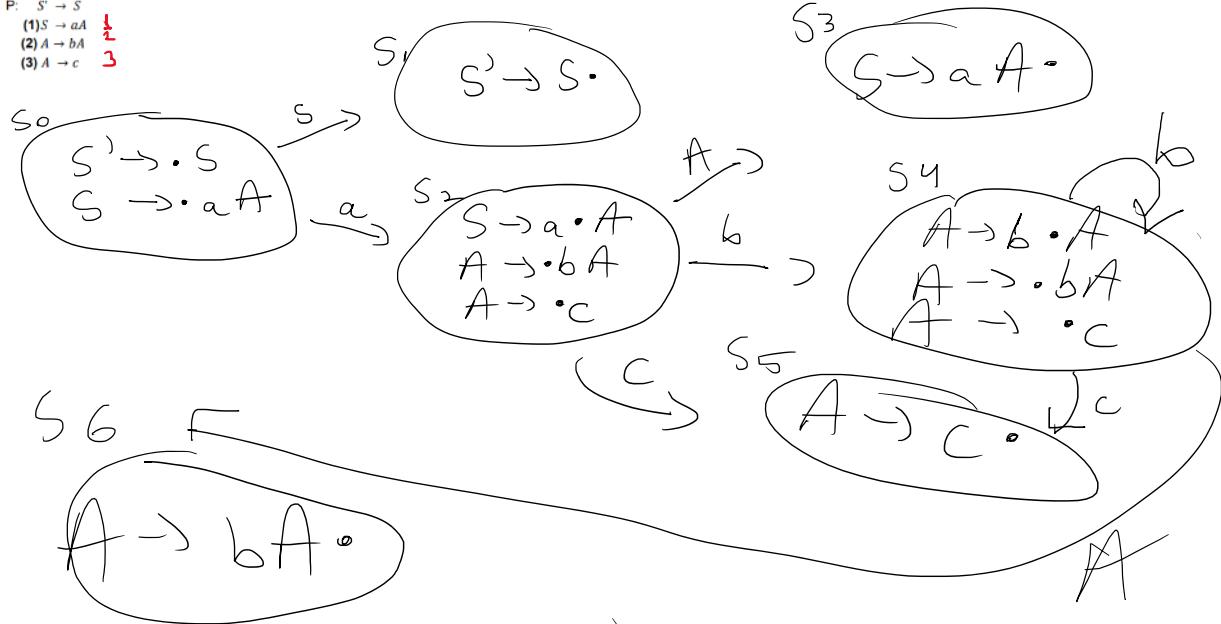


Ex. $G = (\{S^*, S, A\}, \{a, b, c\}, P, S^*)$
 P: $S^* \rightarrow S$
 (1) $S^* \rightarrow aA$ 1
 (2) $A \rightarrow bA$ 2
 (3) $A \rightarrow c$ 3



Closure $(S^*) \rightarrow \cdot S$

\Rightarrow $S^* \rightarrow \cdot S$ $S \rightarrow \cdot aA$ $S \rightarrow \cdot A$
 Action

Items

S_0

Shift

a
 S_2

S_1

accept

got o
a b c ?

S_2

Shift

S_4 S_5

S_3

reduce 1

S_4

S_4

Shift

S_5

S_5

reduce 3

~~Stack~~

Input

Onur

a b c \$

8

S2

b b c s

\mathcal{E}

62653

5 c \$

526546 54

C \$

b Ss b Ss c Ss

\$

↳ Sys Sys A S 6

3

2554 AS6

23

S 2 A S 3

223

S A

\$ SOSI
\$ accept

1223

53

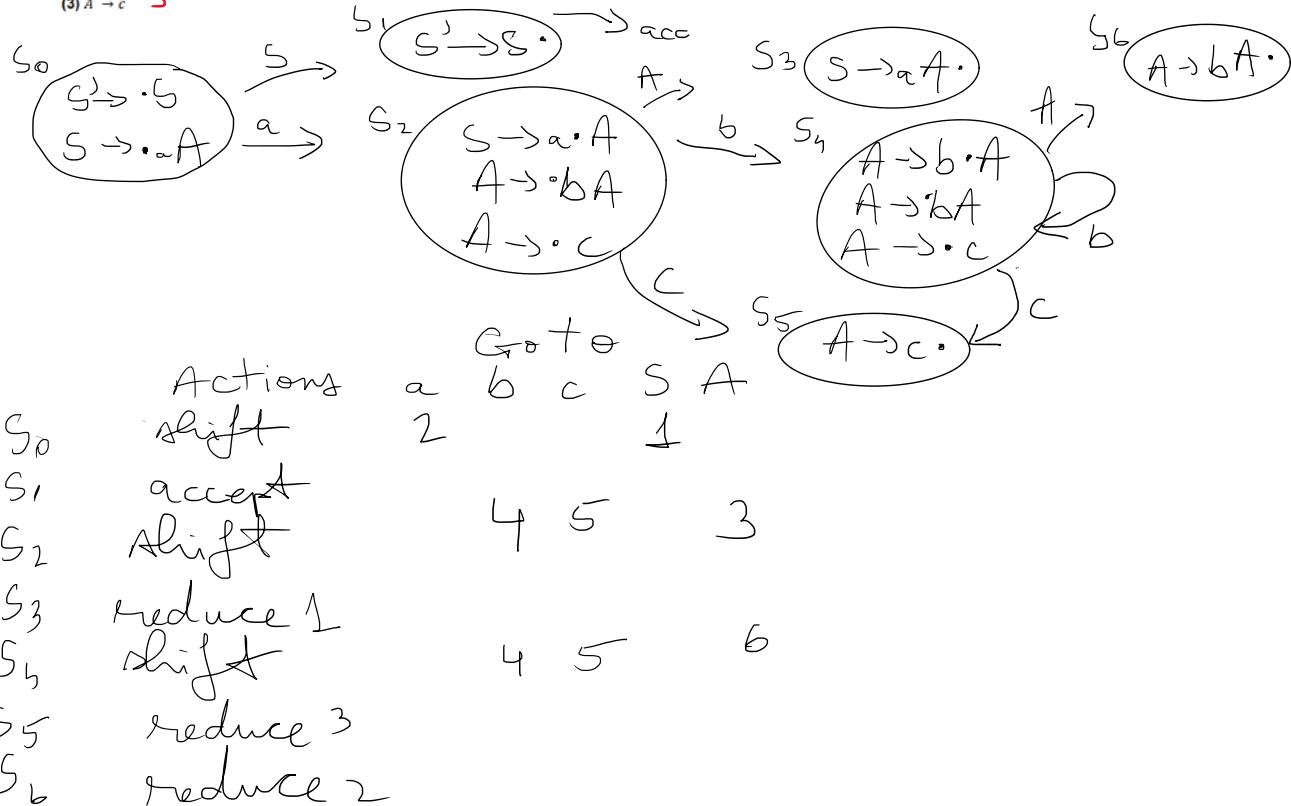
56

5.6 reduce 2

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

P: $S' \rightarrow S$

- (1) $S \rightarrow aA$ 1
- (2) $A \rightarrow bA$ 2
- (3) $A \rightarrow c$ 3



Stack	Input Stack	Output Band
\$	abbc\$	ϵ
\$ \$0 a \$2	b b c \$	ϵ
\$ \$0 a \$2 b \$4	b c \$	ϵ
\$ \$0 a \$2 b \$4 b \$5	c \$	ϵ
\$ \$0 a \$2 b \$4 b \$5 c \$5	\$	ϵ
\$ \$0 a \$2 b \$4 b \$5 A \$6	\$	3
\$ \$0 a \$2 b \$4 A \$6	\$	23
\$ \$0 a \$2 A \$3	\$	223
	#	1 ~ ~ ~

\$ \$₀ a \$₂ AS₃ \$ 22
\$ \$₀ S₁ \$ 22
\$ accept \$ 1223

