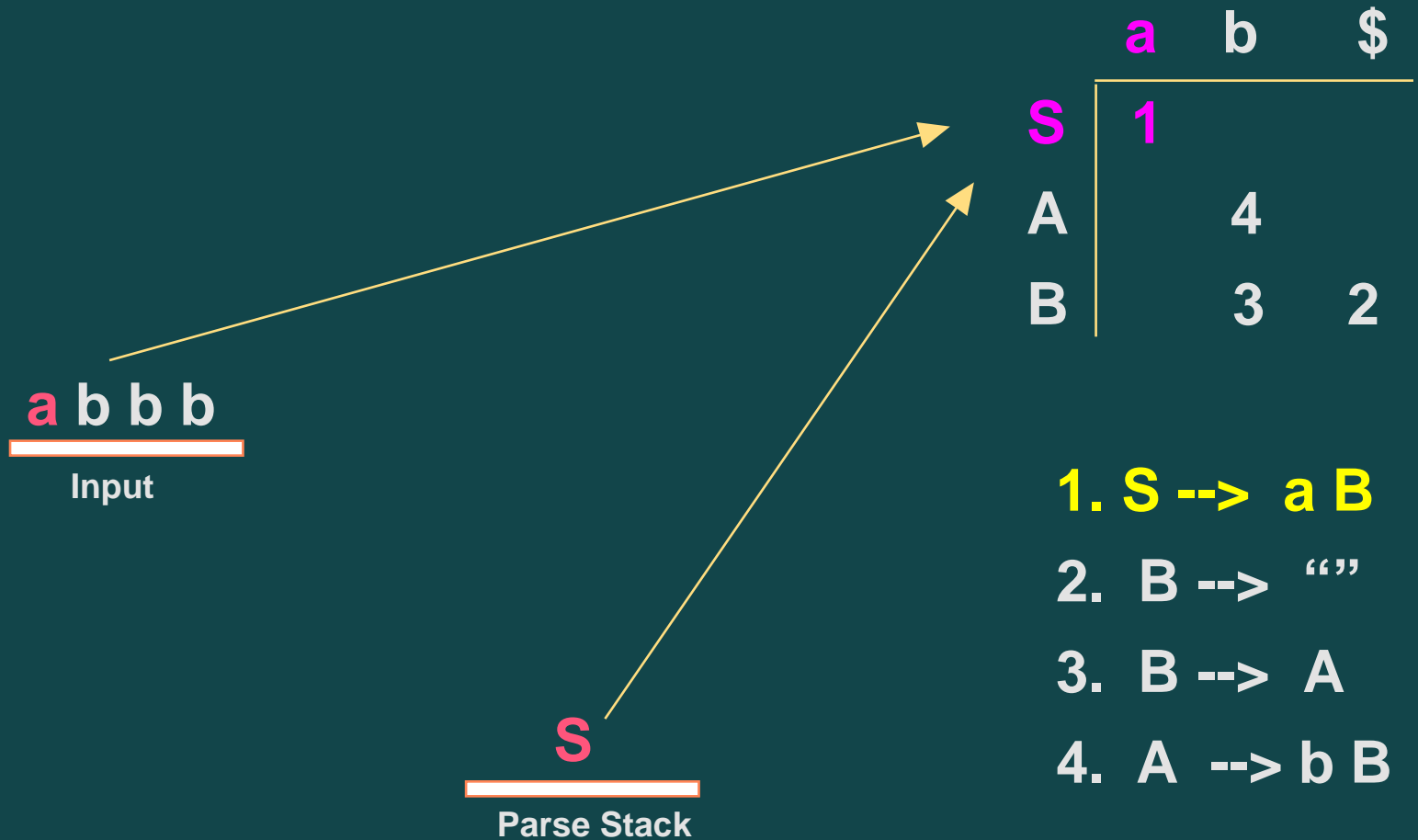
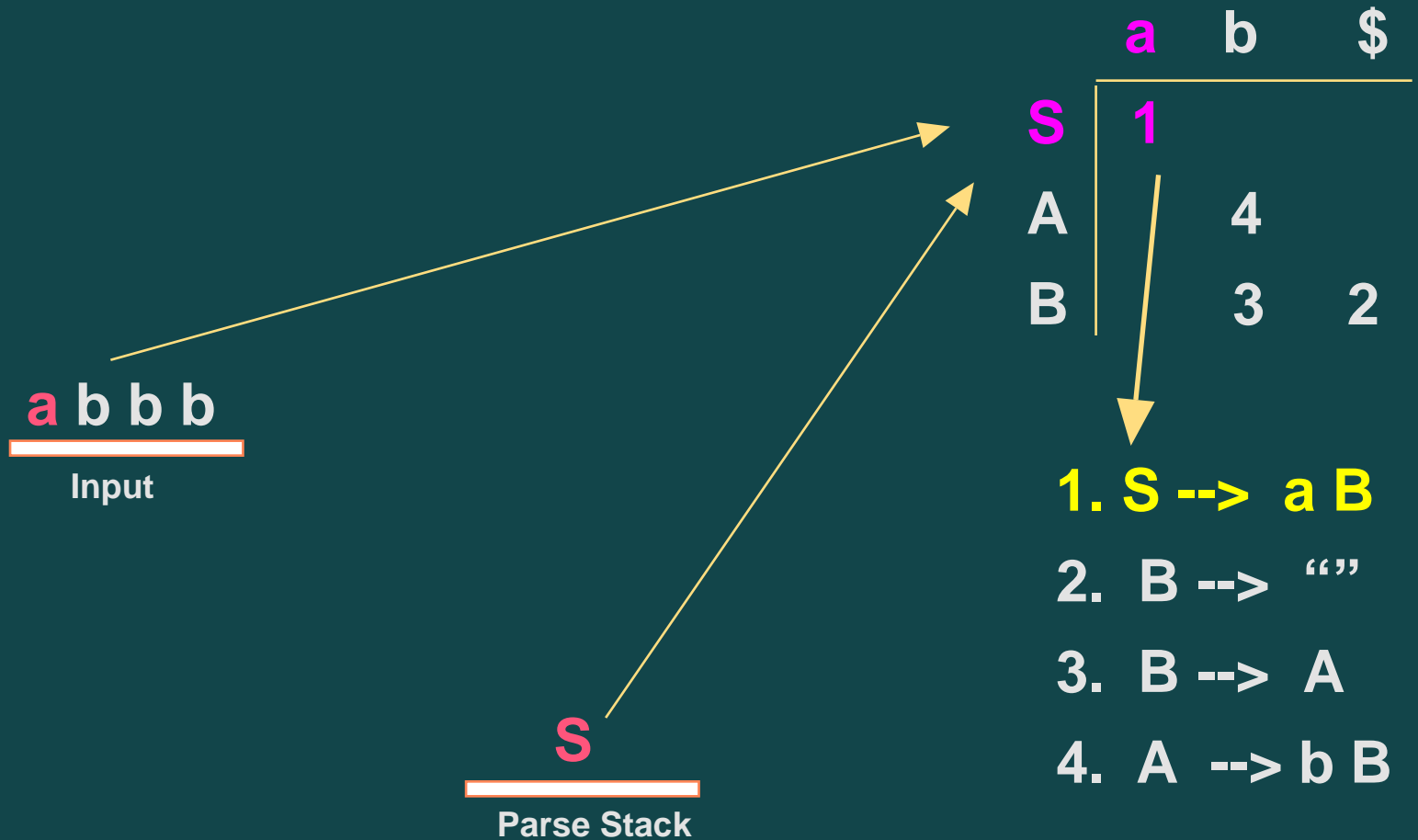


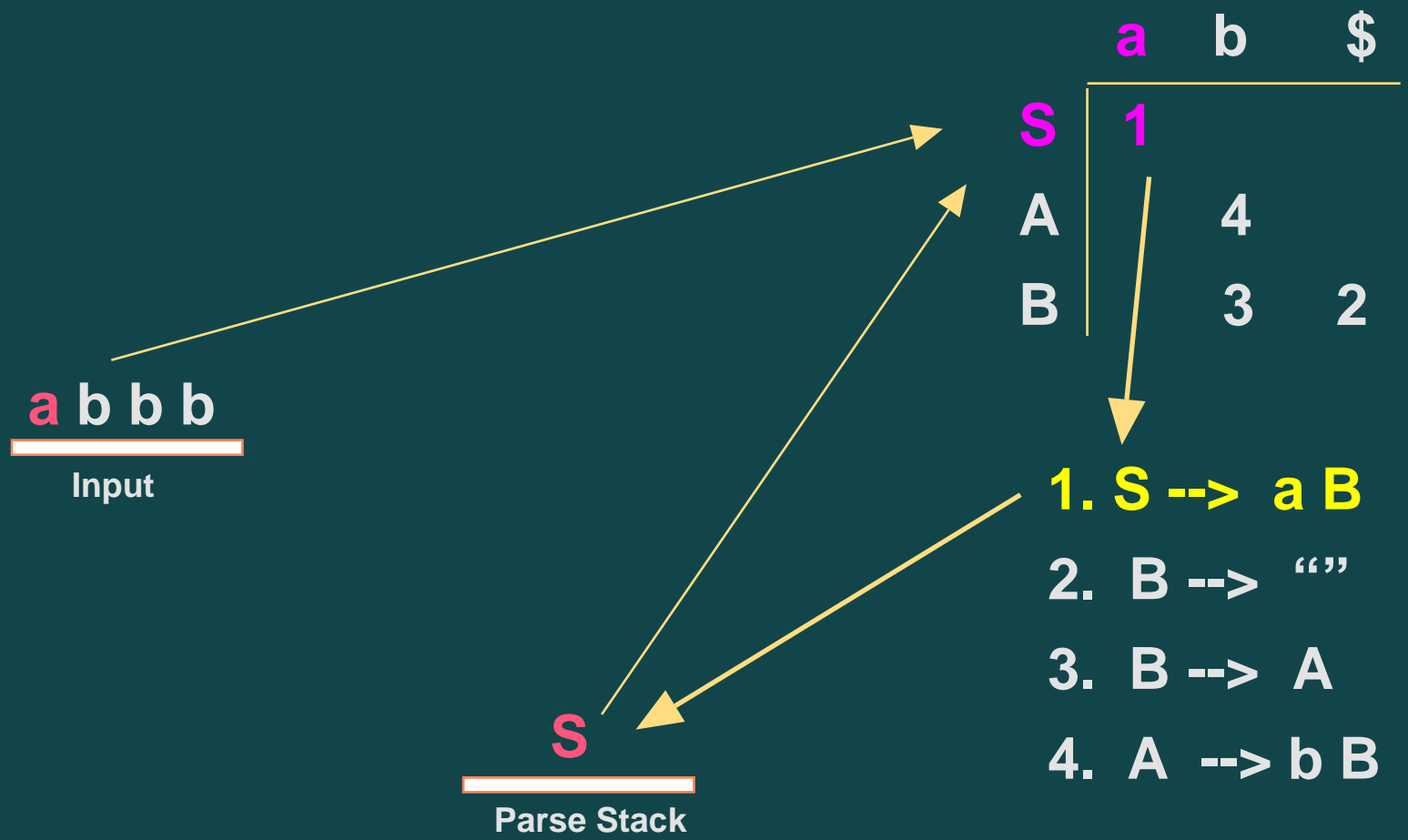
LL1 Parsing



LL1 Parsing



LL1 Parsing

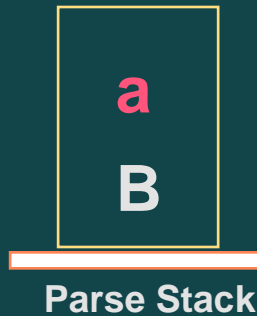


LL1 Parsing

	a	b	\$
S	1		
A		4	
B		3	2

a b b b

Input



1. **S** --> **a B**
2. **B** --> ""
3. **B** --> **A**
4. **A** --> **b B**

LL1 Parsing

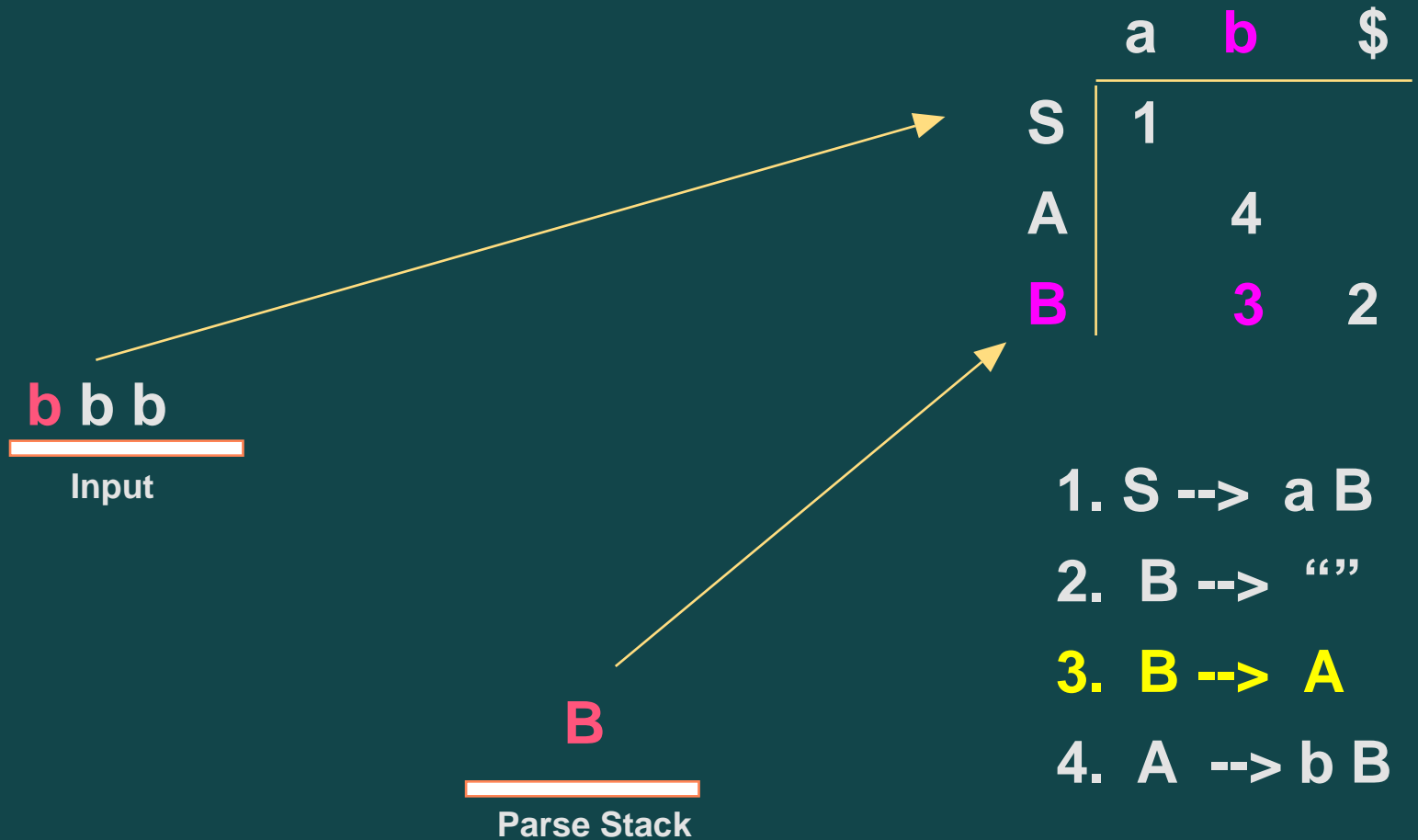
~~a~~ b b b
Input

~~a~~
B
Parse Stack

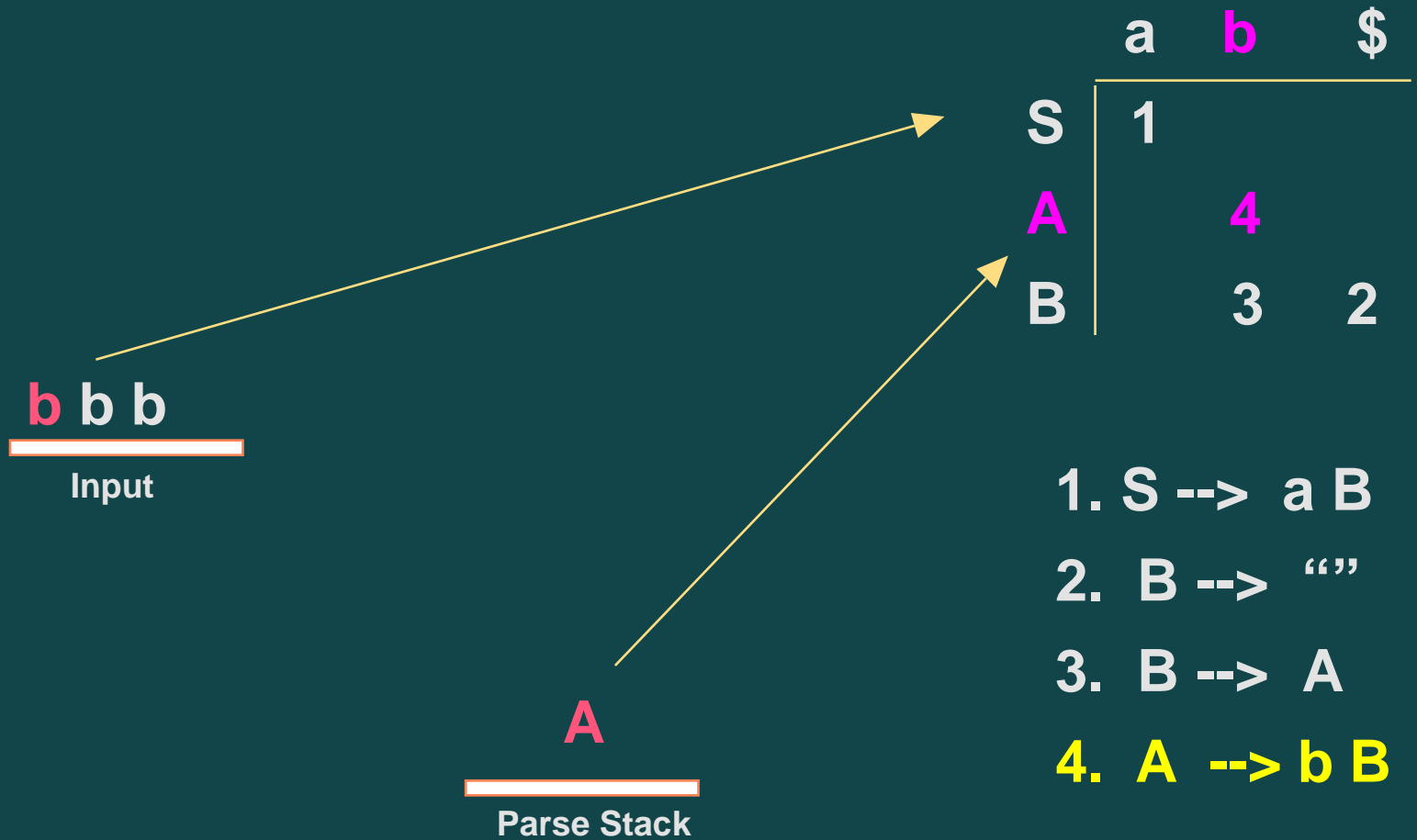
	a	b	\$
S	1		
A		4	
B		3	2

1. $S \rightarrow a B$
2. $B \rightarrow ""$
3. $B \rightarrow A$
4. $A \rightarrow b B$

LL1 Parsing



LL1 Parsing



LL1 Parsing

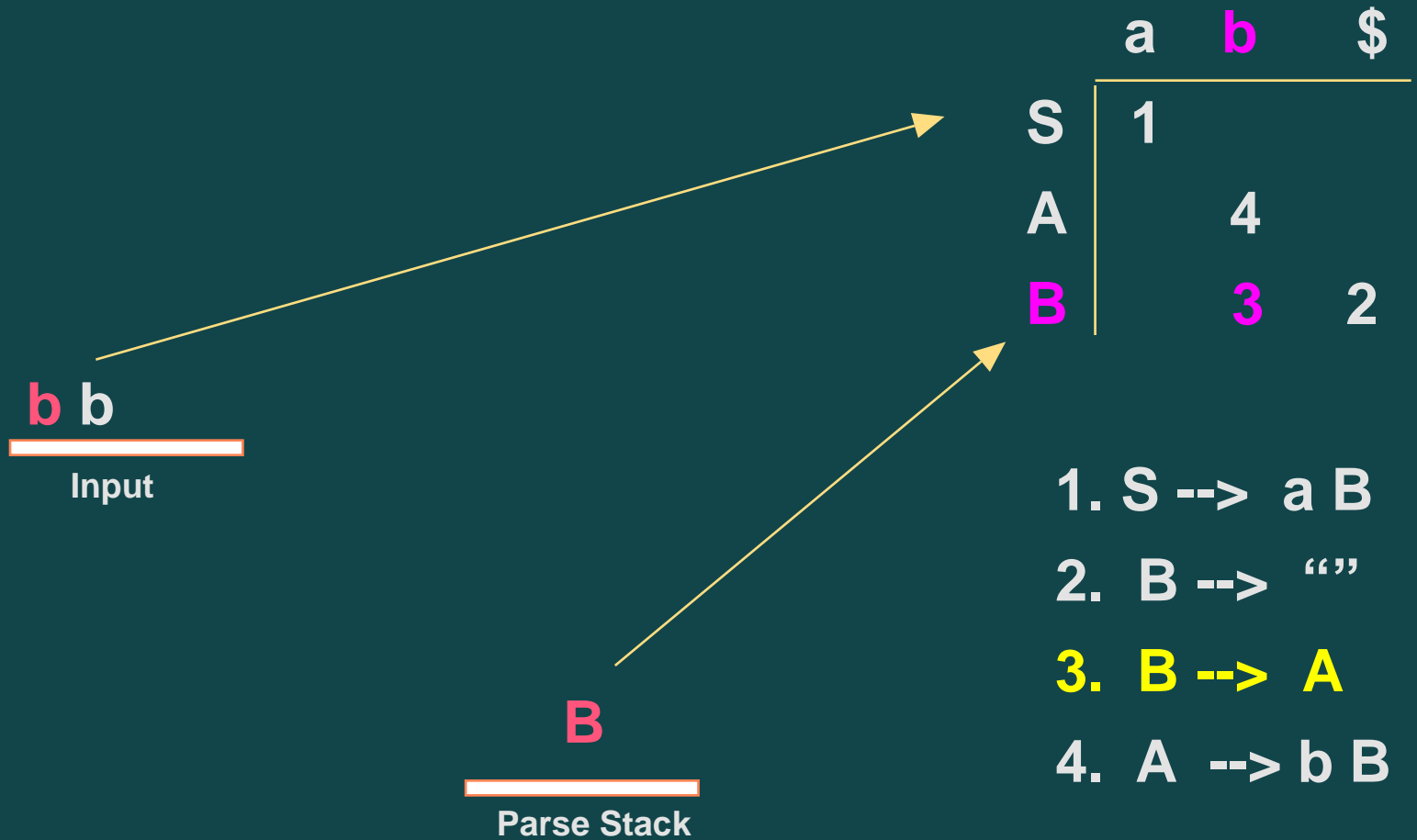
~~b~~ b b
Input

~~b~~
B
Parse Stack

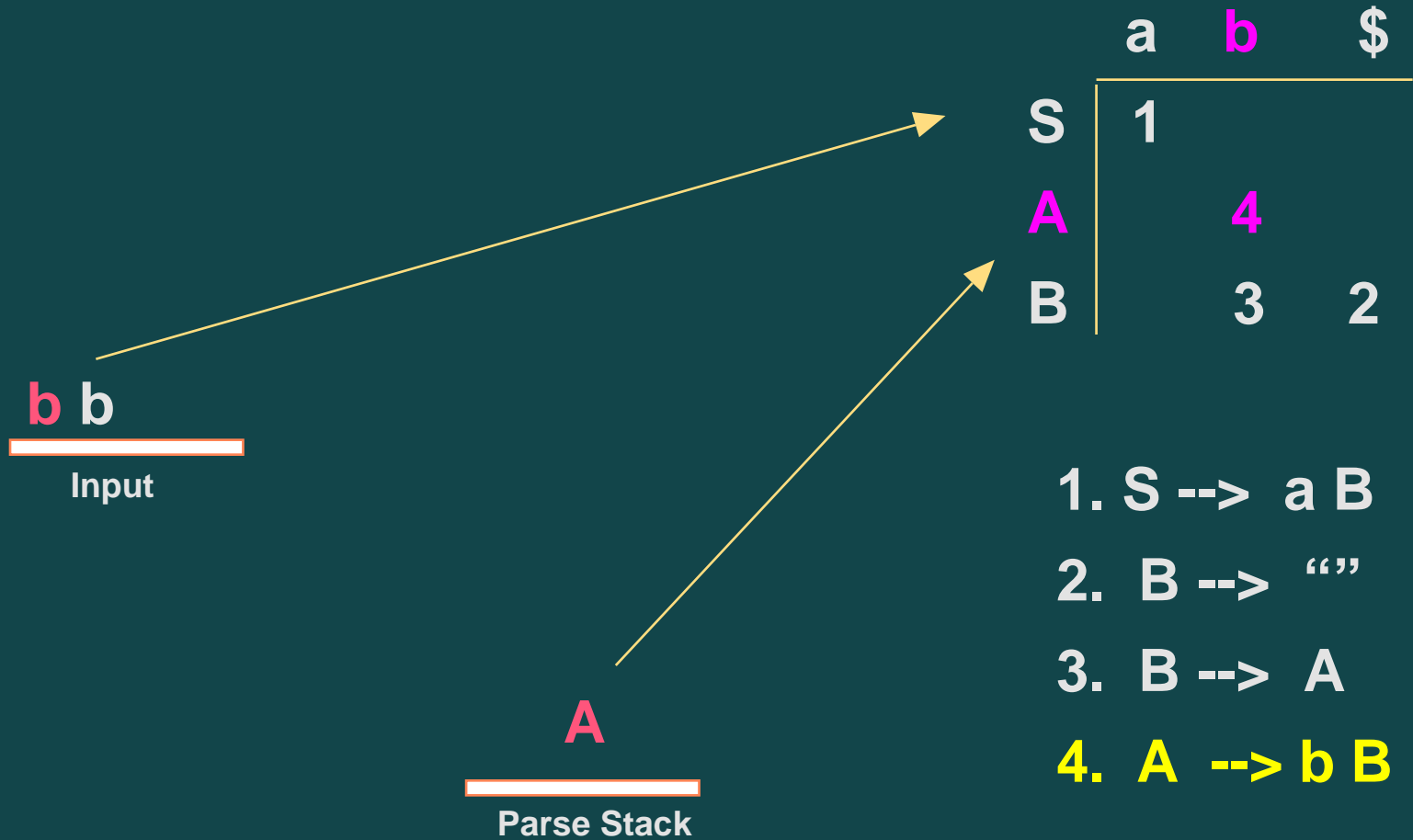
	a	b	\$
S	1		
A		4	
B		3	2

1. $S \rightarrow a B$
2. $B \rightarrow \text{“”}$
3. $B \rightarrow A$
4. $A \rightarrow b B$

LL1 Parsing



LL1 Parsing



LL1 Parsing

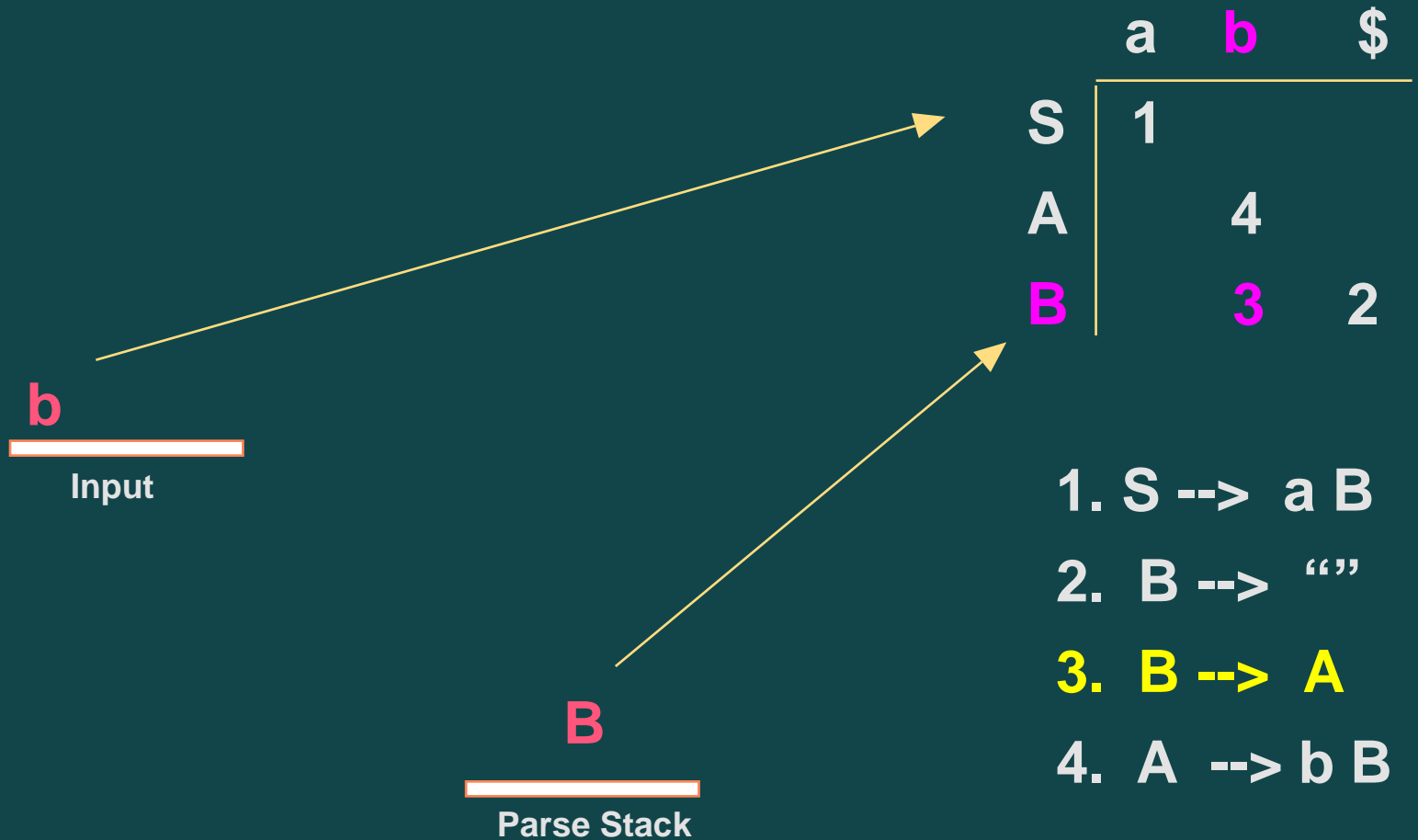
~~b~~ b
Input

~~b~~
B
Parse Stack

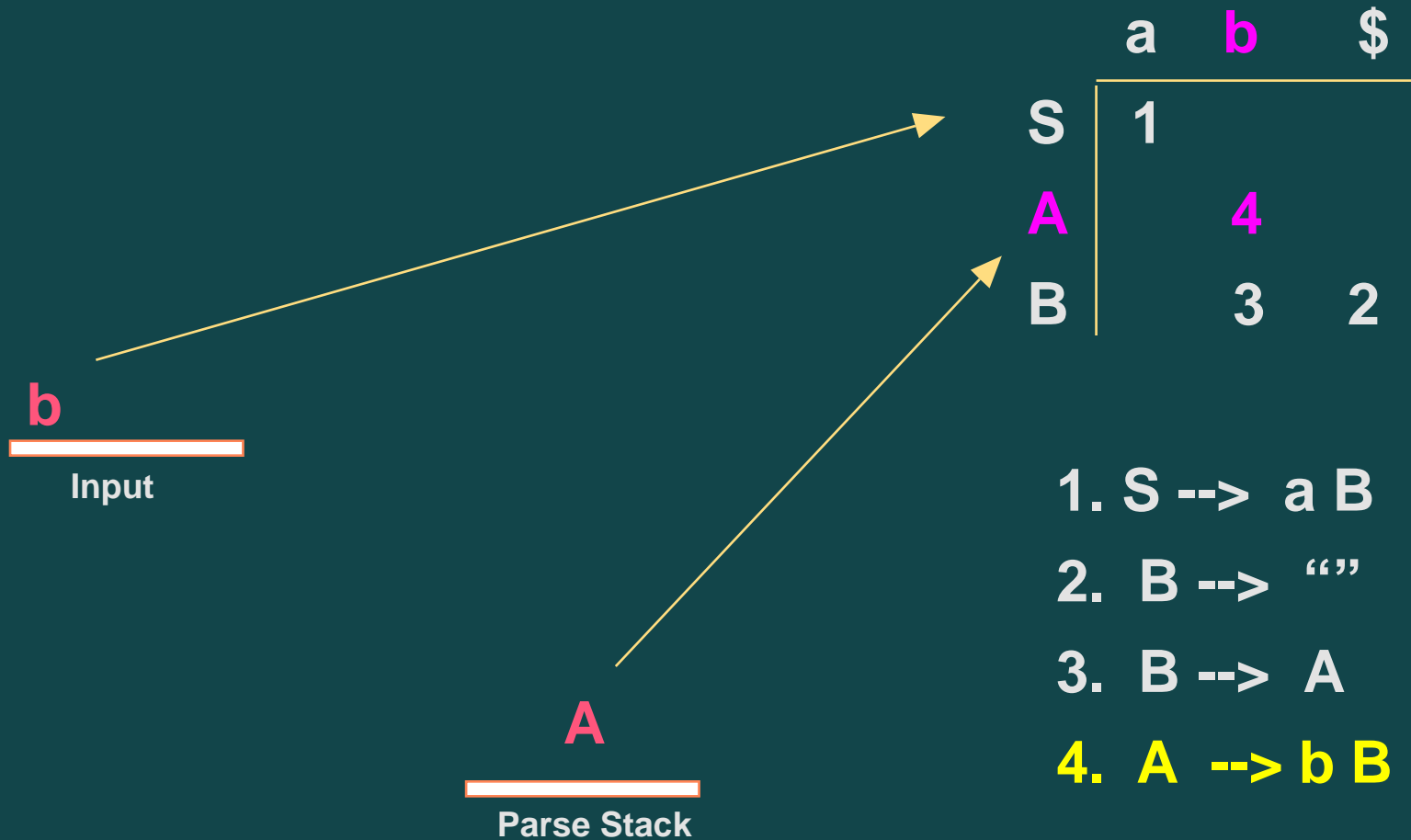
	a	b	\$
S	1		
A		4	
B		3	2

1. $S \rightarrow a B$
2. $B \rightarrow \text{“”}$
3. $B \rightarrow A$
4. $A \rightarrow b B$

LL1 Parsing



LL1 Parsing



LL1 Parsing

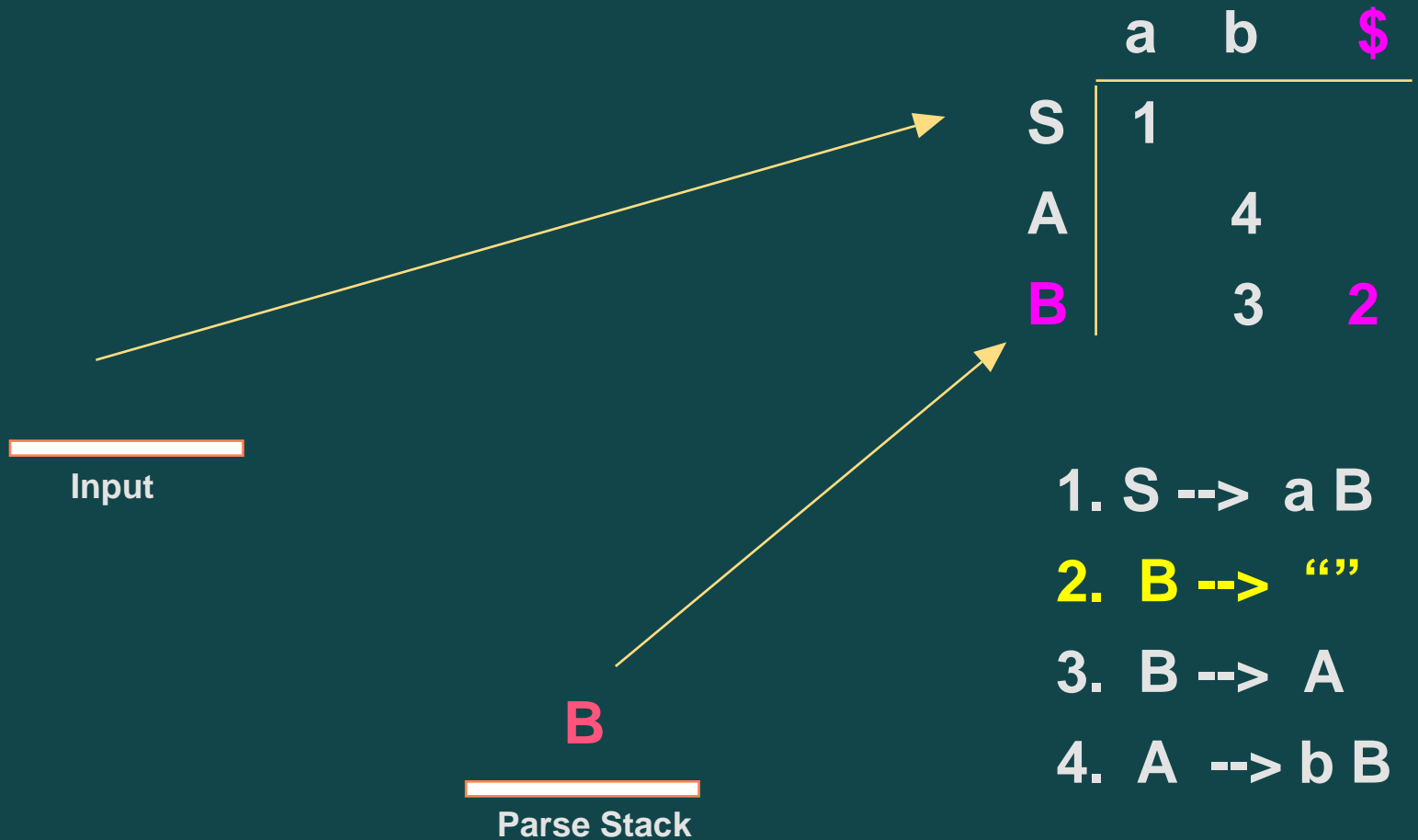
~~b~~
Input

~~b~~
B
Parse Stack

	a	b	\$
S	1		
A		4	
B		3	2

1. $S \rightarrow a B$
2. $B \rightarrow \text{“”}$
3. $B \rightarrow A$
4. $A \rightarrow b B$

LL1 Parsing



LL1 Parsing

	a	b	\$
S	1		
A		4	
B		3	2

Input

1. $S \rightarrow a B$
2. $B \rightarrow ""$
3. $B \rightarrow A$
4. $A \rightarrow b B$

Parse Stack

If Tokens don't match you have an ERROR

If Stacktop and Input have nothing predicted -- ERROR

If you have a Semantic Action at Stacktop, EXECUTE IT