CYK-Algorithmus [1]

$G = (\{S, A, B, C\}, \{a, b\}, P, S)$
$P = \{$

$$S \rightarrow AB \mid BC$$
$$A \rightarrow BA \mid a$$
$$B \rightarrow CC \mid b$$
$$C \rightarrow AB \mid a$$

$\}$

a	b	a	a	b
A,C	B	A,C	A,C	B
S,C	A,S	B	S,C	
B	-	B		
S,A	-			
S,S,C				

$\Rightarrow abaab \in L(G)$

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[1] https://www.youtube.com/watch?v=Q5TvCyu4RUo