## CFG- Introduction problem

$$P = \{S \rightarrow AB, A \rightarrow a, B \rightarrow b\}$$

$$S = S$$

$$L(S) = ab$$

$$L(A) = a$$

$$L(A) = \{a_1 a a_1 a a a_1, a a a a_1, \dots, \}$$

Construction of CFG from Language

 $L = g a^n / n \text{ is odd } g$   $A \to aaA / a$ 

 $+ L = \{a^n \mid n \text{ is even}\}$   $A \rightarrow aaA \mid \{a\}$ 

\* L consists of palindrome of strings over { a,b3

L= { aba, bab, abba, baab, ... }

S= { asa| bsb|a|b|aa|bb|43

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