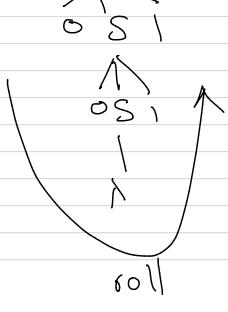
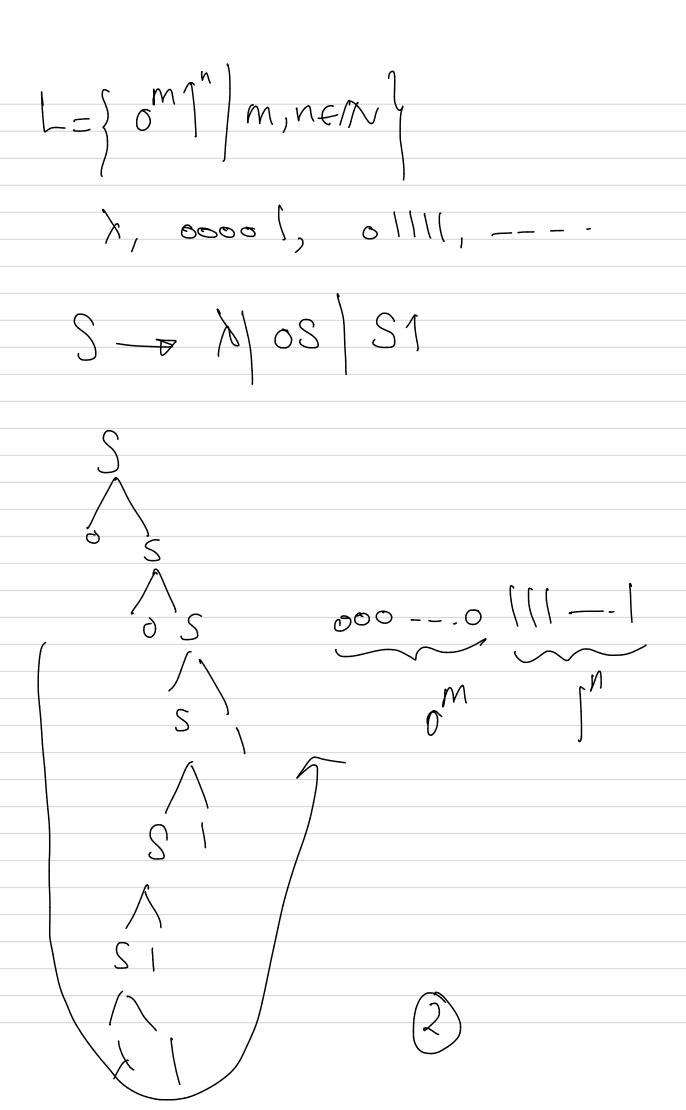
CSC 220

10/20/2020

Grammar





$$L = \begin{cases} (000)^n & N \in M \end{cases}$$

S 3000 S 9000 h 000

Grammar for a lang. of even # of 0's not.

N, oo, ooo & L, oo & L, -
S-7 \ ooS

Palindromes:

$$A = \{a,b\}$$

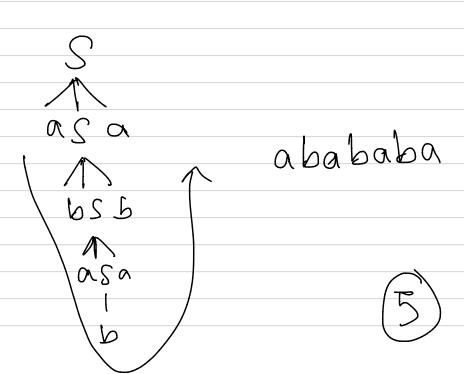
$$S \rightarrow a \mid b$$

$$but$$

$$aba$$

$$bbabb$$

S _ a b a Sa 656



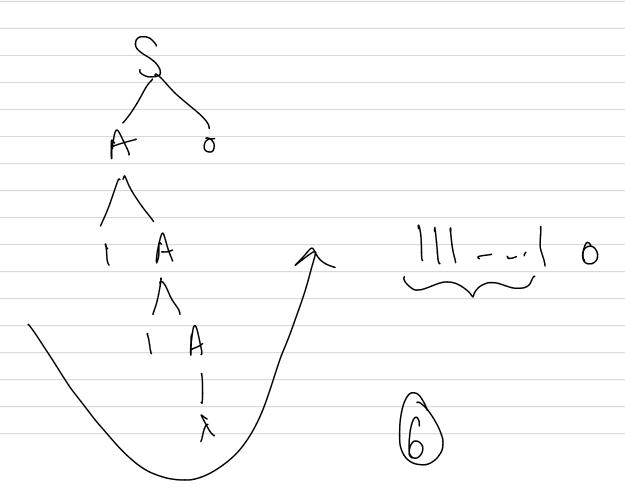
$$L = \begin{cases} 5 & \text{new} \end{cases}$$

$$S \rightarrow 0 & \text{s} \end{cases}$$

$$L = \begin{cases} 1 & \text{o} & \text{aem} \end{cases}$$

$$S \rightarrow A & \text{o} \end{cases}$$

$$A \rightarrow 1A & \text{f} \end{cases}$$

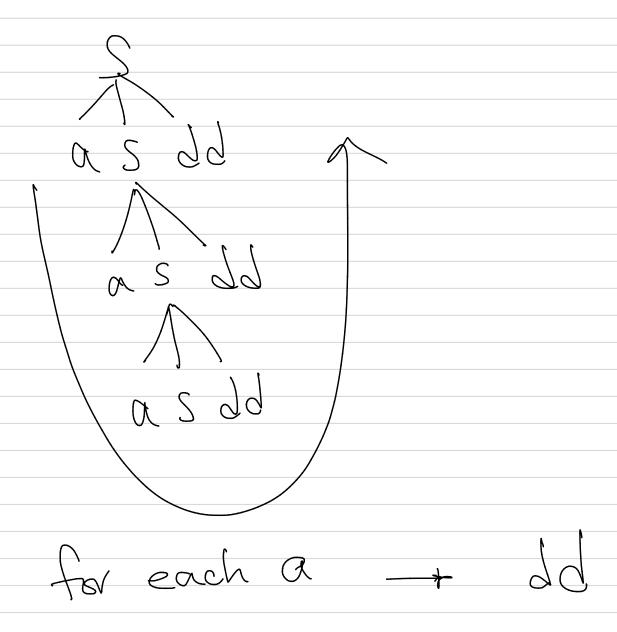


 $L=\begin{cases} a & b & m & 2n \\ n & m & m \end{cases}$ $m > 0 \Rightarrow C.d$ bc. El _a bcd

S - a Sdd A A - p be/bAC



S_200





S -, A -> b A C DAC P C

$$L = \{aa, bb\}$$

$$S = \{aa, bb\}$$

$$L = \frac{1}{2} aa, bb$$

$$S = \frac{1}{2} aaS \left(\frac{1}{2} bbS \right)$$

ac, abc, abbc, abbbc,—

$$S \rightarrow aBC$$
 $B \rightarrow b | bB$

