

CONTEXT FREE GRAMMARS – In-class exercises

- 1) Strings of the form $0^n 1^n$, $n \geq 0$
- 2) Strings of the form $0^n 1^{2^n}$, $n \geq 0$
- 3) Strings of the form $0^n 10^n$, $n \geq 0$
- 4) Strings of the form 0^n , $n \geq 0$
- 5) Strings of the form 0^n , $n \geq 1$
- 6) Strings of the form $0^n 1^n 0^m$, $m, n \geq 0$
- 7) Strings of the form $0^n 1^m 0^n$, $m, n \geq 0$
- 8) Strings of the form of balanced parenthesis: $((()))(())...$
- 9) If-Then-Else statements and other syntax
- 10) Binary strings of even length

11) Strings with equal number of a's and b's (in any order)

12) Strings of the form $0^i 1^j$ s.t. $i \neq j, i, j \geq 0$

13) Strings not of the form $0^i 1^j$ s.t. $i = j, i, j \geq 0$