Parsing algorithm - Cocke - Kasami - Younger (CKY) Assumptions: G is in CNF Given we I*, check if S *> w (and find a derivation) $W = W_1 W_2 \dots W_n$ JAB s.t S-DAB, A *DWI...Wi B *DWI...Wn I \i \i \i \in \n - Try ont all possible choices à i I recursively check of A = W,... W; & B = with who for each Production S-AB $O(i,j) = \left\{ A \in \mathbb{N} \middle| A \stackrel{*}{\longrightarrow} \omega_{i+1} \omega_{i+2} \cdots \omega_{j} \right\}$ Algorithm: Compute O(o, n) & check if $S \in \mathcal{O}(0,n)$ $O(c_{i,j}) = \begin{cases} A & A \rightarrow BC & B \in D(c_{i,k}) \end{cases}$ $C \in O(k,j)$, i < k < j

Base case of the recursion?