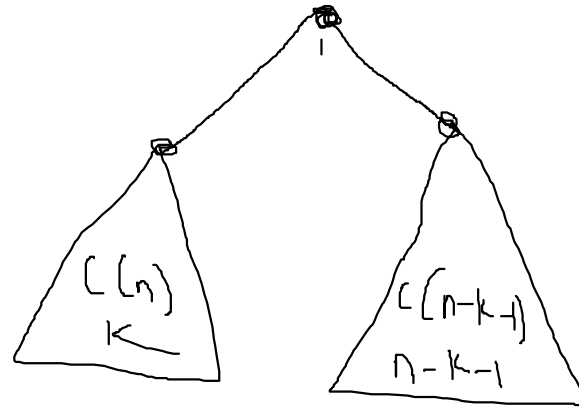


$n$  total nodes



$$0 \leq k \leq n-1$$

Let  $C(n)$  = # of BTs w/ exactly  $n$  nodes

$$C(n) = \sum_{k=0}^{n-1} C(k) C(n-k-1)$$

$$\begin{array}{r} n \\ \hline 5 \end{array} \quad \begin{array}{r} C(n) \\ \hline 5 \end{array}$$