

Recursion

factorial $n!$

$$= n \cdot (n-1) \cdot (n-2) \cdot \dots \cdot 1$$

$$n! = n \cdot (n-1)! \quad \left. \vphantom{n!} \right\} \text{recursive case}$$

$$0! = 1 \quad \left. \vphantom{0!} \right\} \text{base case}$$

