

## Numeri naturali

$$\mathbb{N} = \{0, 1, 2, 3, 4, \dots, n, \dots\}$$

- infinito

$$\forall n \in \mathbb{N} \Rightarrow \underbrace{n+1}_{\text{successivo}} \in \mathbb{N}$$

$$\forall n \in \mathbb{N}, n \neq 0 \Rightarrow n-1 \in \mathbb{N}$$

$$\forall n \in \mathbb{N} - \{0\} \Rightarrow \underbrace{n-1}_{\text{precedente}} \in \mathbb{N}$$

- totalmente ordinato

$$\forall m, n \in \mathbb{N}$$

$$m < n, \quad m = n, \quad m > n$$

(legge di tricotomia)

- discreto

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0 1 2 3 4

$\forall n \in \mathbb{N} \exists m \in \mathbb{N} :$   
 $m < n < m+1$