







Important Note:

0 is considered a natural number in CSC236

- (2) $\forall k \in \mathbb{N}, P(k) \Rightarrow P(k+1)$
- (3) $\forall n \in \mathbb{N}, P(n)$ is true

*From Textbook pg 11

IDEA BEHIND SIMPLE INDUCTION 000 Statements are lined up like dominoes Suppose the 1st statement falls (is proved true) Suppose the kth falling *always* causes the (k+1)th to fall Then all statements must fall (All statements proved true)

