$\exists c \in \mathbb{R}^{+}, e>0 \land n_{0} \in \mathbb{Z}^{+}, n_{0}>0 \quad t_{q} \quad \forall n_{\geq} n_{0}$ $f(n) = O(g(n)) \longrightarrow O \leq F(n) \leq Cg(n)$ $f(n) = O(g(n)) \longrightarrow C_{q}(n) \leq F(n) \leq C_{2}g(n)$ $\forall c \in \mathbb{R}^{+}, c>0 \quad \exists n_{0} \in \mathbb{Z}^{+}, n_{0}>0 \quad t_{q} \quad \forall n \geq n_{0}$ $f(n) = o(g(n)) \longrightarrow O \leq F(n) \leq Cg(n)$ $f(n) = o(g(n)) \iff O \leq F(n) \leq Cg(n)$ $f(n) = o(g(n)) \iff O \leq F(n) \leq Cg(n)$

$$f(n) = \omega(g(n)) \longrightarrow 0 \leq cg(n) < f(n)$$

•
$$f(n) = \omega(g(n)) \langle = \rangle$$
 $\lim_{n \to +\infty} \frac{f(n)}{g(n)} = +\infty$