## Onega Motation (1) 4 Best care scanario $f(n) = \Omega(g(n))$ $f(n) > = c \cdot g(n)$ Constant $c \cdot g(n) = c \cdot g(n)$ Time $n \to \infty$

Example 1
$$f(n) = m \quad g(n) = 5n$$

$$f(n) = \Omega \left(g(n)\right)$$

$$f(n) > = c \cdot g(n)$$

$$m > = c \cdot Sn \leftarrow True$$

$$c = 1/5$$

$$f(n) = m^{2}$$

$$g(n) = n^{2} + n + 10$$

$$f(n) > = c \cdot g(n)$$

$$m^{2} > = c \cdot m^{2} + n + 10$$

$$c = 1/2$$

$$c = 1/2$$

Example 3

$$f(n) = m$$

$$g(n) = m^{2}$$

$$f(n) > = c \cdot g(n)$$

$$True$$

$$C = \frac{1}{2}$$

$$Mot \ constant$$

$$(Inversely)$$

$$\alpha > = 1$$

$$n > = n$$