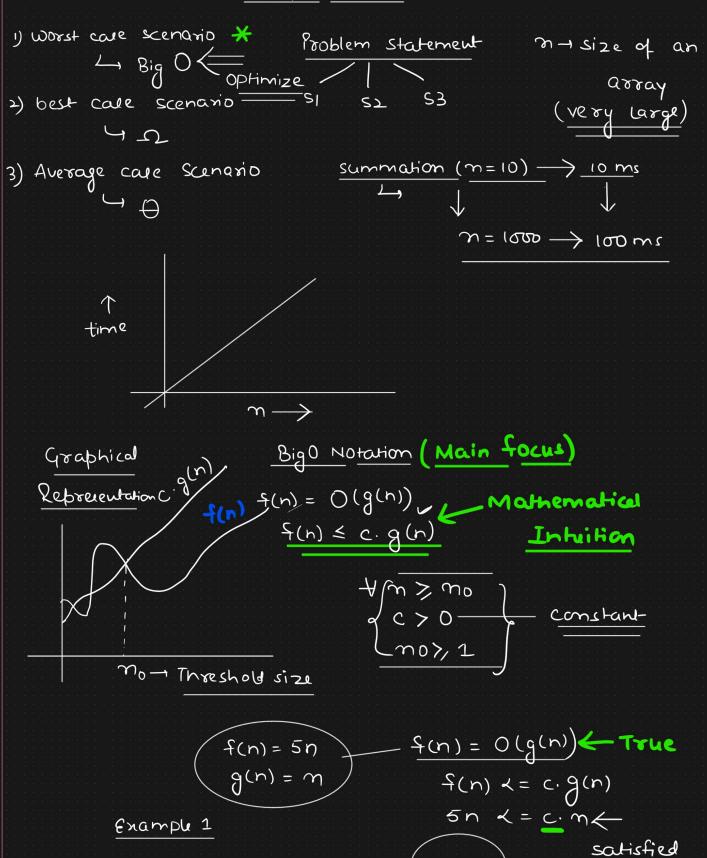
Asymptotic Notation



Example 2
$$f(n) = m$$

$$g(n) = 5n$$

$$f(n) = O(g(n)) \longrightarrow True$$

$$f(n) < = (.g(n))$$

$$f(n) < = c. sn < satisfied$$

$$c = 1/s \rightarrow constant$$

Example 3
$$f(n) = n^{2} \quad g(n) = n$$

$$f(n) = O(g(n))$$

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

$$m^{2} < = c \cdot n \longrightarrow True$$

$$c = n \longrightarrow c \propto n$$