

What is the time complexity of, $f(n) = n + 4$

What is the time complexity of given function?

$f(n) = n + 4$.

Solution:

Given,

$f(n) = n + 4$

- $n + 4 \geq n + 4$
- $n + 4 \geq n$, where $n \geq 1$
- $n + 4 \geq n$, for all $n \geq 1$

$f(n) \geq n$, for all $n \geq 1$

Compare with the standard Big omega notation equation that is,

$f(n) \geq c * g(n)$, for all $n_0 \geq n$

Here,

$g(n) = n$,

$c = 1$

$n_0 = 1$

- $f(n) = \Omega(g(n))$
- $f(n) = \Omega(n)$