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Ejercio 5

Crarie that the running time of an algorithm is

O(g(n)) if and only if its warst-case running time

is O(g(n)) and its best case running time is I(g(n))

Cara O(g(n))

Hejor case I (g(n))
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Peror caso O (g (n))

camo:

$$0 \le T(n) \le c2g(n)$$
 para $n \ge n0$

$$T(n) = O(g(n)) (lémite superion)$$

como

Finalmento:

on (g(n)) 4 T(n) < O(g(n))