

## Contests

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## For example, let f(n) = 2n + 5.

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In order to find the Big O of this function, we have to find another function q(n) such that  $f(n) \le c.q(n)$ for all  $n \ge n'$  where c and n' are positive constants.

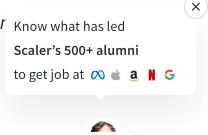
If we take g(n) = 7n and put this is the above equation, we can see that (2n+3) <= (7n) for all n > 0 and c= 7. Hence, we can say that the function f(n) = O(7n). But we write it as f(n) = O(n) as we generally analyze an algorithm for a large input *n* and if *n* is large, *n* is approximately equal to 7n.

The comparison of the function f(n)and q(n) can also be seen in the graph given below. The function  $f(n) \le g(n)$  for points where r Know what has led

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