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Limear Search

arr = [18, 12, 9, 14, 77, 50] Find whether 14 exists in array or not? By for each loop

Or 12 21 3i 4 5

Orn = (18, 12, 9, 14, 77, 50)

Let's say if we have to search for 88 in the same array then again it will iterate over each and every element. The Element 88 will not be found and you will neach at the last index. In this case, If value not found,

Time complexity >

Best - O(1) 1/ Constant Worst Case -> O(N) N > size of Armay

How many checks will the loop make in best case i.e element found at oth index?

Wy = [8, 9, 12, 18 - - 200 Elements]

target = 8 1 Comparison in the best case

worst (ase - You don't find the target item. iterate / go through every item and at the end it says 9 did not find it.

Size of Array = 100 -> 100 Comparisons = 100 ms 200 -> 200 Comparison = 200 ms

I Lakh -> I Lakh Comparison = I Lakh ms

