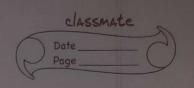
## LINEAR SEARCH ALGORITHM



searching: - It is a process of finding a given value position in a list of values.

## \* Linear Search:-

- · It is basic & simple search algorithm
- · In sequencial search, we compare the those target value with all the other elements given in the list.
- all the other elements given in the list.

  eg:- arr= [18, 12, 19, 77, 29, 50]

  start

array

target = 77

· Time complexity:

## ① BEST :- O(1) → CONSTANT

→ How many check will the coop make in hest rase, i.e the element is found at 0th index > thus only one comparison will be made for best case.

## @ WORST CASE :- O(NL)

> Worst case, here it will go throughous every element and then it says element not found.

$\rightarrow$	size of array	No of comparis	cons	timecms	
	100	100		looms	
	200	200		200 ms	
	n	n		n ms.	
t	ime	time			
	O(n)/			0(1)	
	- LINEAR				
		TIME		ONSTANT TIME COMPLEX	174
	1111	COMPLEXITY 1m	8		
				The state of the s	
	WORST CASE	SIZE		BAS CACE SIZE	