

## Linear Searching Algorithm.

\* Searching: — It is a process of finding a given value position in a list of values.

\* Linear Search :-

· It is also called in Sequential Search.

• It is basic & simple search algorithm.

In sequential search, we compare the target value with all the other elements given in list.

eq! ar = [18, 12, 19, ff, 29, ff]

target = 77 Here target value is compared with all element in

array in sequential / linear way

\* Time Complexity !-

\* Best Case 1- 00(1) -- constant

How many checks will loop make in best case i.e. the element will be found at 0th index. i.e. only one companision will be made for best case

\* Worst Case :- O(n)

worst case, here it will go through every element & then it says element is not found.