Linear Search

Linear search is a **sequential searching algorithm** where we start from one end and check every element of the list until the desired element is found. It is the simplest searching algorithm.

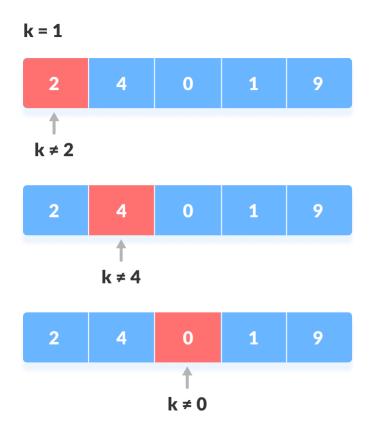
How Linear Search Works?

The following steps are followed to search for an element k = 1 in the list below.



Array to be searched for

1. Start from the first element, compare k with each element x.



Compare with each element 2. If x == k, return the index.



Element found

3. Else, return not found.

Linear Search Algorithm

```
LinearSearch(array, key)
for each item in the array
if item == value
return its index
```