

Searching Algorithms

1. Linear Search

If the given array is unsorted, then we have to check or search each element one by one, which is called linear search.

Time Complexity: $O(n)$

Space Complexity: $O(1)$

2. Binary Search

When an array is sorted, then we can search everytime the mid element and accordingly we can go in left or right, which is called binary search.

Time Complexity: $O(\log n)$

Space Complexity: $O(1)$