**Comparison of Time Complexity of Linear Search and Binary Search Algorithms**

Time complexity is a concept that is evolved to match the proper functionality without any latency. It is dealt with proper size handling and matches user performance

**Linear Search:**

**Best Case-** O(1) where the item is available early or first

**Average Case-** O(n)

**Worst Case-** O(n) where item is last or not found

No sorting is required

Its approach is linear, where it checks each item one by one

**Binary Search:**

**Best Case-** O(1) where the item is in the middle

**Average Case-** O(log n)

**Worst Case-** O(log n) where item is not found

The array is to be sorted before starting the search

It approaches the search by dividing the array in two equal halves repeatedly