



Assignment 2

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Question: Difference Between Linear Search and Binary Search

Sr. No.	Linear search	Binary search
1	The linear search starts searching from the first element and compares each element with a searched element till the element is not found.	It finds the position of the searched element by finding the middle element of the array.
2	In a linear search, the elements don't need to be arranged in sorted order.	The pre-condition for the binary search is that the elements must be arranged in a sorted order.
3	It is based on the sequential approach.	It is based on the divide and conquer approach.
4	It is preferable for the small-sized data sets.	It is preferable for the large-size data sets.
5	It is less efficient in the case of large-size data sets.	It is more efficient in the case of large-size data sets.