Unsorted Arrays vs Binary Search

Choose difficulty: ☑ Beginner ☑ Intermediate ☑ Advanced

1. How is a linear search performed?

○ a: An element is copied linearly in another array until the required element comes up.

Explanation

○ b: Array is broken into smaller subarrays and elements are searched recursively.

Explanation

◉ c: Array is traversed from left to right using a loop, until the required element comes up.

○ d: None of the above

2. In the worst case, what is the time complexity of linear search?

○ a: O(log N)

○ b: O(1)

◉ c: O(N) Explanation

○ d: O(N log N)

3. In the best case, what is the time complexity of linear search?

◉ a: O(1) Explanation

○ b: O(N log N)

○ c: O(log N)

○ d: O(N)

4. How is linear search disadvantageous?

◉ a: Time taken to find an element is more as compared to other searching algorithms

Explanation

○ b: Space complexity to perform a linear search increases the memory overhead

Explanation

○ c: It is difficult to implement linear search. Explanation

○ d: None of the above

5. For an ordered linear search, O(log n) is the worst case time complexity.
(An ordered linear search is the linear search on an array which is already sorted)

○ a: True

◉ b: False Explanation

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