1. **Explain Big O notation and how it helps in analyzing algorithms.**

* Big O describes how the runtime of an algorithm changes with input size. It helps in comparing efficiencies.

1. **Describe the best, average, and worst-case scenarios for search operations.**

* Best case scenario for both the search algorithms is O(1).
* Average case scenario for Linear Search is O(n) where as for Binary Search is O(log n).
* Worst case scenario for both Linear Search and Binary Search remains to be O(n) and O(log n) respectively.

1. **Compare the time complexity of linear and binary search algorithms.**

* Linear Search works on unsorted array with O(n) whereas Binary Search works on sorted array with O(log n).

1. **Discuss which algorithm is more suitable for your platform and why.**

* According to me, Binary Search would be more suitable as the list can be kept sorted easily according to the types.