

Compare	Linear Search	Binary Search
Performance	Linear search has a time complexity of $O(n)$	Binary search has a time complexity of $O(\log n)$
Best Case	time complexity: $O(1)$.	time complexity: $O(1)$.
Worst Case	time complexity: $O(n)$.	time complexity: $O(\log n)$.
Average Case	time complexity: $O(n/2) \approx O(n)$.	time complexity is also $O(\log n)$

Conclusion

binary search is more efficient in terms of time complexity, especially for large datasets, while linear search is simpler and may be more suitable for small datasets or unsorted arrays