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| **Feature** | **Linear Search** | **Binary Search** |
| Time Complexity | O(n) | O(log n) |
| Best Case Time Complexity | O(1) | O(1) |
| Worst Case Time Complexity | O(n) | O(log n) |
| Space Complexity | O(1) | O(1) (Iterative) or O(log n) (Recursive) |
| Data Requirement | Works on unsorted and sorted lists | Requires sorted list |
| Implementation Complexity | Simple and easy to implement | More complex to implement |
| Use Case | Small or unsorted datasets | Large, sorted datasets |
| Performance on Large Data | Inefficient | Highly efficient |
| Applicability | Can be used on any list | Only on sorted lists |
| Pre-processing Required | None | Sorting the data before searching |