|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Unsorted, singly linked** | **Sorted, singly list** | **Unsorted, doubly linked** | **Sorted, diubly linked** |
| **Search (L, k)** | O(n) | O(n) | O(n) | O(n) |
| **Insert (L, x)** | O(1) | O(n) | O(1) | O(n) |
| **Delete (L, x)** | O(n) | O(n) | O(1) | O(1) |
| **Successor**  **(L, x)** | O(n) | O(1) | O(n) | O(1) |
| **Predecessor**  **(L, x)** | **O(n)** | **O(n)** | O(n) | O(1) |
| **Minimum ( L )** | O(n) | O(1) when the list sorted in ascending order, O(n) when the list sorted in descending order | **O(n)** | O(1) when the list sorted in ascending order, O(n) when the list sorted in descending order |
| **Maximum( L )** | **O(n)** | O(n) when the list sorted in ascending order or O(1) when the list sorted in descending order | **O(n)** | O(n) when the list sorted in ascending order or O(1) when the list sorted in descending order |