

Linear search

$O(n)$

Binary search

$O(\log n)$

Bubble sort

① Best case

$O(n^2)$

② Average case

$O(n^2)$

③ Worst case

$O(n^2)$

Selection sort

① Best case

$O(n^2)$

② Average case

$O(n^2)$

③ Worst case

$O(n^2)$

Insertion sort

① Best case

$O(n^2)$

② Average case

$O(n^2)$

③ Worst case

$O(n^2)$

Radix sort

① Best case

$O(n)$

② Average case

$O(n)$

③ Worst case

$O(n)$

## quick sort

- |                |               |
|----------------|---------------|
| ① Best case    | $O(n \log n)$ |
| ② Average case | $O(n \log n)$ |
| ③ Worst case   | $O(n^2)$      |