

| Sortering og velging (sammenligningsbasert) | | | | | |
|---|---------------|--------------------|---------------|-------------|--------|
| Algoritme | Worst Case | Average Case | Best Case | SC | Stabil |
| Bubble Sort | $O(n)$ | $O(n^2)$ | $O(n^2)$ | $O(1)$ | Ja |
| Insertion Sort | $O(n^2)$ | $O(n^2)$ | $O(n)$ | $O(1)$ | Ja |
| Selection Sort | $O(n^2)$ | $O(n^2)$ | $O(n^2)$ | $O(1)$ | Nei |
| Merge Sort | $O(n \log n)$ | $O(n \log n)$ | $O(n \log n)$ | $O(n)$ | Ja |
| Quicksort | $O(n^2)^*$ | $O(n \log n)^{**}$ | $O(n \log n)$ | $O(\log n)$ | Nei |
| Heapsort | $O(n \log n)$ | - | $O(n)^{***}$ | $O(1)$ | Nei |

*Oppstår når listen er sortert i stigende/synkende rekkefølge (IKKE for Randomized)

**Ved Randomized Quicksort

*** $O(n)$ for like elementer, $O(n \lg n)$ ved distinkte elementer

| Sortering og velging (IKKE sammenligningsbasert) | | | | | |
|--|---------------|---------------|---------------|------------|--------|
| Algoritme | Worst Case | Average Case | Best Case | SC | Stabil |
| Bucket Sort | $O(n^2)$ | $O(n)$ | $O(n)$ | $O(n)$ | Ja |
| Counting Sort | $O(n + k)$ | $O(n + k)$ | $O(n + k)$ | $O(k)$ | Ja |
| Radix Sort | $O(d(n + k))$ | $O(d(n + k))$ | $O(d(n + k))$ | $O(n + k)$ | Ja* |
| Select | $O(n)$ | $O(n)$ | $O(n)$ | N/A | N/A |
| Randomized select | $O(n^2)$ | $O(n)$ | $O(n)$ | N/A | N/A |

| Heap-operasjoner | |
|------------------|--------------------|
| Operasjon | Kjøretid |
| Insert | $O(\log n) / O(h)$ |
| Delete | $O(\log n) / O(h)$ |
| Build | $O(n) / O(V)$ |

| Grafalgoritmer | | | |
|--------------------|--------------------------|-----------------------------|------------------------|
| Algoritme | Worst Case | Best Case | Kommentar |
| DFS | $O(V + E)$ | $O(V + E)$ | LIFO |
| BFS | $O(V + E)$ | $O(V)$ | FIFO |
| Topologisk Sort | $O(E + V)$ | $O(E + V)$ | Min-pri. Queue |
| Prims | $O(E \log V)$ | - | $O(E + V \log V)$ fib. |
| Kruskal | $O(E \log V)$ | - | |
| Bellman-Ford | $O(VE)$ | - | Negative kanter |
| Dijkstras | $O(V \log V + E \log V)$ | $O(V \log V + E)$ (fib.) | Negative kanter |
| DAG-Shortest-Path | $O(V + E)$ | - | Ikke sykler |
| Floyd Warshall | $O(n^3)$ | - | |
| Johnson | $O(VE \log V)$ | $O(V^2 \log V + VE)$ (fib.) | |
| Transitiv Lukning | $O(n^3)$ | - | |
| Ford-Fulkerson | $O(E f^*)$ | - | |
| Edmonds-Karp | $O(VE^2)$ | - | FF med BFS |
| Bipartite-Matching | $O(VE)$ | - | |