

Linked list :

insert $O(1)$

remove $O(n)$

find previous $O(n)$

others $O(1)$

Array list :

insert $O(n)$

remove $O(n)$

others $O(1)$

Doubly linked list :

insert $O(1)$

remove $O(1)$

others $O(1)$

Array queue :

serve $O(n)$

BT:

find $O(n)$

BST:

find $O(\log n)$

AVL:

find $O(\log n)$

insert $O(\log n)$

delete $O(\log n)$

Hash :

find $O(1)$

Graph :

adjacency matrix: $O(n^2)$

Adjacency list : $O(e+n)$

Heap:

Down heap: $O(\log n)$

Priority queue : space $O(n)$ enqueue, serve $O(\log n)$ others $O(1)$

Sort heap $O(n)$ مرتب

Sort heap $O(n \log n)$ عكس الترتيب

