IEEE SMP 2018

Assignment 2 -Time Complexity

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1.Stacks

top():O(1)

push():O(1)

pop():O(1)

size():O(1)

2.Queues

front():O(1)

back():O(1)

push():O(1)

pop():O(1)

size():O(1)

3.Vectors

push_back():O(1)

find():O(n)

size():O(1)

sort():O(nlogn)

erase():O(n)

4.Arrays

sort():O(nlogn)

lower_bound():O(logn)

upper_bound():O(logn)

next_permutation():O(n)

prev_permutation():O(n)

5.Pair

Sort():O(nlogn)

6.Priority Queue

push():O(logn)

pop():O(logn)

size():O(1)

7.Map

insert():O(login)

find():O(logn)

8.Set

insert():O(logn)

erase():O(logn)

size():O(1)

find():O(logn)

9.Multiset

insert():O(logn)

erase():O(logn)

size():O(1)

10.Double-Ended Queue

push_front():O(1)

push_back():O(1)

pop_front():O(1)

pop_back():O(1)

size():O(1)