ASSIGNMENT - 2

Array:

Function Call	Time Complexity
memset(A,0,sizeof(A))	O(sizeof(A))
sort(&A[0],&A[999])	O(1000 log 1000)
lower_bound(A[0],A[999],x)	O(log 2*1000)
upper_bound(A[0],A[999],x)	O(log 2*1000)
next_permutation(A[0],A[999])	O(1000)
prev_permutation(A[0],A[999])	O(1000)

Double_Ended_Queue:

exity

Мар:

Function Call	Time Complexity
insert(pair) find(key) count() begin() end()	O(logn) O(logn) O(logn) O(1) O(1)

Multiset:

Function Call	Time Complexity
begin() end()	O(1) O(1)
insert(element)	O(logn)

	erase(iterator) size()	O(logn) O(1)		
Pair:				
	Function Call	Time Complexity		
	sort(start iterator, end iterator) P[i]	O(nlogn) O(1)		
Priority	/_Queue:			
	Function Call	Time Complexity		
	make_pair(x,y) push(x) top() pop() size()	O(1) O(1) O(1) O(1) O(1)		
Queue:				
	Function Call	Time Complexity		
	front() back() push(x) pop() size()	O(1) O(1) O(1) O(1) O(1)		
Set:				
	Function Call	Time Complexity		
	insert(x) size() begin() end() count()	O(logn) O(1) O(1) O(1) O(1)		

erase(x)

O(logn)

Stack:

Function Call	Time Complexity
top()	O(1)
push(x)	O(1)
pop()	O(1)
size()	O(1)

Vector:

Time Complexity
O(1)
O(1)
O(1)
O(n)
O(1)