

Project Documentation

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IndexNo: 17001552

Used algorithm:

- To update no of books in xth shelf to k -:
replace value in array index x-1 with k
shelf [x-1] = k
- To get no of books in between x & y with kth rank -:
define new array with given range
assign values to new array
sort new array
get the value in the kth index in array

shelf [N] $1 \leq x \leq y \leq N$

range = s = y-x+1

subshelf [s]

FOR i < y & j < s

subshelf [j] = shelf [i]

FOR i < N;

 FOR j=i+1 & j < N

IF subshelf[j] < subshelf[i]

 temp=subshelf[j]

 subshelf[j]=subshelf[i];

 subshelf[i]=temp;

Test cases:

2019-Compulsory Take Home Assignment.pdf - Adobe Reader

File Edit View Document Tools Window Help

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Output Format

For every test case, output the results of the queries in a new line.

Sample Input

2
2
12
2
0121
0122
4
4321
4
0111
111
0111
0143

Sample Output

1
2
4
1
2

You are required to submit the following:
A zip file which is named with your INDEX NUMBER (ex:"18020013.zip")

CAUsers\Anushka\Desktop\17001552.exe

Enter no of shelves : 2
1
2
Enter no of queires : 2
Enter query : 0
1
2
1
-----> Answer is : 1
Enter query : 0
1
2
2
-----> Answer is : 2
Enter no of shelves : 4
4
3
2
1
Enter no of queires : 4
Enter query : 0
1
1
1
-----> Answer is : 4
Enter query : 1
1
1
Successfully changed
Enter query : 0
1
1
1
-----> Answer is : 1
Enter query : 0
1
4
3
-----> Answer is : 2