

You are given a positive integer n. The second line will contain n positive integers. The third line will contain a value k. Now print the total count of strictly less and strictly greater value from k. Implement it using function.

Note – In the given input, there may exist duplicate value.

Sample Input : Sample Output :

1 255923 5

5



Write a C program to take one positive integer  $\mathbf{N}$ , the size of an array as input. Then take a positive integer array of size  $\mathbf{N}$ . And the next line will contain  $\mathbf{k}$ . Now find the  $\mathbf{k}$ -th largest and  $\mathbf{k}$ th-smallest element from the array.

Implement it using function. And try to implement it using 3 functions  $.1^{\text{st}}$  one is for sorting  $\,$  , second one for

finding k-th largest element and third one for finding the kth- smallest element.

See the sample output for more clarification.

Note - 1<=k<=N

Sample Input : Sample Output :

9

4

2 17 1 1 3 2 5 19 5 4<sup>th</sup> largest element = 5

4<sup>th</sup> smallest element = 2



You are given a string S of small letters, Now calculate the cost of the string and tell that whether the cost of the string is a power of two or not.

In this problem cost means the sum of the alphabetic order of the given string. Alphabetic order means a=1, b=2, c=3 ....... z=26

And, power of two is a number of the form 2<sup>n</sup> (2 to the power n) where n is an integer.

Now ,If the cost is a power of two print YES with cost (in this format 2^n) otherwise print NO. Implement it using function.

Sample Input 1:

abc

Sample Input 2:

bbca

Sample Output 1:

NO

Sample Output 2:

YES

 $cost = 2^3$ 



You are given an integer n . Now print n to 1 . Implement it using recursion.		
Sample Input: 4	Sample Output: 4321	



You are given an integer n . Now print the sum of first n natural numbers. For example $n=5$ , that means sum of first n natural number is $15(1+2+3+4+5)$ . Implement it using recursion.		
Sample Input: 5	Sample Output: 15	



You are given 3 integers a, b and c . Now print the sum of three numbers using the concept of pointer in C.		
Sample Input: 10 20 30	<b>Sample Output :</b> 60	

## <u>Codeforces Problem Link –</u>

- 1) <a href="https://codeforces.com/contest/1560/problem/A">https://codeforces.com/contest/1560/problem/A</a>
- 2) <a href="https://codeforces.com/contest/1608/problem/A">https://codeforces.com/contest/1608/problem/A</a>
- 3) <a href="https://codeforces.com/contest/1680/problem/A">https://codeforces.com/contest/1680/problem/A</a>