

You are given a string S of small letters, now sort the string on the basis of their count in descending order, It is guaranteed that all the characters count are distinct.

Sample Input 1: Sample Output 1:

bbbbaccddd bbbbdddcca

Sample Input 2: Sample Output 2:

aabccc cccaab

Explanation of sample input 1 -

Total count of b = 4, Total count of d=3, Total count of c=2, Total count of a=1.

We can see that count of b is greatest among all the characters that's why firstly b will come then  $2^{nd}$  greatest count is d,  $3^{rd}$  greatest count c and lastly a will come.

Hints – Nested loop and check the 31st October conceptual session



You are given a string S of small letters, now check whether the given string is palindrome or not. If the string is palindrome print YES otherwise print NO.

Note - A palindrome is a string that reads the same backward as forward

Sample Input 1: Sample Output 1:

aabbaa

Sample Input 2: Sample Output 2:

abcd

Hints – Reverse the string and compare.



You are given a string S of small letters, Now count the number of vowels and consonant from the given string.

Sample Input 1: Sample Output 1:

aeibcou Vowel – 5

Consonant -2

Sample Input 2: Sample Output 2:

 $trpplqw \hspace{3cm} Vowel-0$ 

Consonant - 7



You are given two matrix of size NxM where N is the row number and M is the column number. Now first line of the input will contain the value of N and M , and the next two line will contain the two matrix, Now perform matrix addition operation.

Sample Input:	Sample Output:
22	9 10 12

14 16 18

2 5 6 10 12

123

456

789

10 11 12



There's a chessboard of size 3×3 (It is a special chessboard for Phitron's student). R rooks are placed on it and all others cells are empty. Now you need to tell the total empty cells and their position (row,column).

The first line of the input will contain a single positive integer R, The next line will contain the position of the R rooks in this (x,y) format where x is the row number of the rook and y is the column number of the rook.

Note – Here row and column starts from 1.

Sample Input 1:	Sample Output 1:
3	Total empty cells - 6
21	11
3 3	12
13	2 2
	2 3
	31
	3 2



You are given a matrix of size NxM where N is the row number and M is the column number. Now first line of the input will contain the value of N and M, and the next line will contain the matrix, Now print the transpose version of this matrix.

Note - The transpose of a matrix is simply a flipped version of the original matrix. We can transpose a matrix by switching its rows with its columns.

Sample Input:	Sample Output:
33	
123	147
456	258
789	369

## <u>Codeforces Problem Link –</u>

- 1) https://codeforces.com/edu/course/2/lesson/9/1/practice/contest/307092/problem/B
- 2) https://codeforces.com/contest/1511/problem/A
- 3) <a href="https://codeforces.com/problemset/problem/1433/C">https://codeforces.com/problemset/problem/1433/C</a>