

## Problem A

In this problem, you will be given a string  $S_1$  containing lowercase characters only. You will have to build a new string  $S_2$  in which the characters in  $S_1$  will be in ascending order.

Input: a string  $S_1$ ,  $1 \leq |S_1| \leq 10^6$

Output: the string  $S_2$ .

Sample Case:

Input	Output
axxbabcbabb	aaabbbbbcxx
ayacbxay	aaabcxyy

## Problem B

In this problem, you will have to sort given pair of numbers.

Input:

First line:  $n$ , a number ( $1 \leq n \leq 10^6$ ).

Next  $n$  lines:  $x_i y_i$ , a number ( $0 \leq x_i \leq 1000$ ,  $0 \leq y_i \leq 1000$ ).

Output:

Each line will contain the pair values in ascending order according to the value of  $x_i$ . In case of same  $x_i$ , sort according to  $y_i$ .

Sample Case:

Input	Output
4	2 3
5 2	2 3
2 3	2 5
2 5	5 2
2 3	