# ginortS



#### **Problem Statement**

You are given a string S. S contains alphanumeric characters only.



Your task is to sort the string S in the following manner:

- All sorted lowercase letters are ahead of uppercase letters.
- All sorted uppercase letters are ahead of digits.
- All sorted odd digits are ahead of sorted even digits.

### **Input Format**

A single line of input contains the string S.

#### **Constraints**

0 < len(S) < 1000

### **Output Format**

Output the sorted string S.

#### Sample Input

Sorting1234

## **Sample Output**

ginortS1324

#### Note:

- a) Using join, for or while anywhere in your code, even as substrings, will result in a score of 0.
- b) You can only use one sorted function in your code. A  $oldsymbol{0}$  score will be awarded for using sorted more than once.

**Hint**: Success is not the key, but key is success.