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

Sorting

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

Author [deleted]

Difficulty Medium

Max Score 40

Submitted By 55341

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Python 3



```
1 print(*sorted(input(), key=lambda c: (c.isdigit() - c.islower(), c in '02468', c)),
  sep='')
```

Line: 1 Col: 92

Upload Code as File

Test against custom input

Run Code

Submit Code

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0

Input (stdin)

Download

1 Sorting1234

Your Output (stdout)

1 ginortS1324

Expected Output

Download

1 ginortS1324