

6001. Smallest Value of the Rearranged Number

[My Submissions \(/contest/weekly-contest-279/problems/smallest-value-of-the-rearranged-number/submissions/\)](#)[Back to Contest \(/contest/weekly-contest-279/\)](#)

You are given an integer `num`. **Rearrange** the digits of `num` such that its value is **minimized** and it does not contain **any** leading zeros.

Return *the rearranged number with minimal value*.

Note that the sign of the number does not change after rearranging the digits.

Example 1:

Input: `num = 310`

Output: `103`

Explanation: The possible arrangements for the digits of 310 are 013, 031, 103, 130, 301, 310. The arrangement with the smallest value that does not contain any leading zeros is 103.

Example 2:

Input: `num = -7605`

Output: `-7650`

Explanation: Some possible arrangements for the digits of -7605 are -7650, -6705, -5076, -0567. The arrangement with the smallest value that does not contain any leading zeros is -7650.

Constraints:

- $-10^{15} \leq \text{num} \leq 10^{15}$

JavaScript



```
1 const smallestNumber = (num) => {
2   if (num == 0) return 0;
3   let s = num + '', d = [], zero = 0, res = '';
4   if (num < 0) {
5     s = s.slice(1);
6     res += '-';
7   }
8   for (const c of s) {
9     let x = c - '0';
10    x != 0 ? d.push(x) : zero++;
11  }
12  // pr(d, zero)
13  if (num < 0) {
14    d.sort((x, y) => y - x);
15    for (let i = 0; i < d.length; i++) res += d[i] + '';
16    while(zero--) res += '0';
17  } else {
18    d.sort((x, y) => x - y);
19    res += d[0] + '';
20    while(zero--) res += '0';
21    for (let i = 1; i < d.length; i++) res += d[i] + '';
22  }
23  return res;
24 };
```

☐ Custom Testcase

☒ Use Example Testcases


Run

Submit

Submission Result: Accepted (/submissions/detail/635393758/) ?

More Details > (/submissions/detail/635393758/)

Share your acceptance!

Copyright © 2022 LeetCode[Help Center \(/support\)](/support/) | [Jobs \(/jobs\)](/jobs/) | [Bug Bounty \(/bugbounty\)](/bugbounty/) | [Online Interview \(/interview/\)](/interview/) | [Students \(/student\)](/student/) | [Terms \(/terms\)](/terms/) | [Privacy Policy \(/privacy\)](/privacy/) [United States \(/region\)](/region/)