Problem 2165: Smallest Value of the Rearranged Number

Problem Information

Difficulty: Medium
Acceptance Rate: 53.19%
Paid Only: No
Tags: Math, Sorting

Problem Description

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:

* `-1015 <= num <= 1015`

Code Snippets

C++:

```
class Solution {
public:
long long smallestNumber(long long num) {

}
};
```

Java:

```
class Solution {
public long smallestNumber(long num) {

}
}
```

Python3:

```
class Solution:
def smallestNumber(self, num: int) -> int:
```