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