2578. Split With Minimum Sum

Hint

Easy 85 15

Companies

Given a positive integer `num`, split it into two non-negative integers `num1` and `num2` such that:

- The concatenation of `num1` and `num2` is a permutation of `num`.
  - In other words, the sum of the number of occurrences of each digit in `num1` and `num2` is equal to the number of occurrences of that digit in `num`.
- `num1` and `num2` can contain leading zeros.

Return *the **minimum** possible sum of* `num1` *and* `num2`.

Notes:

- It is guaranteed that `num` does not contain any leading zeros.
- The order of occurrence of the digits in `num1` and `num2` may differ from the order of occurrence of `num`.

Example 1:

Input: num = 4325
Output: 59
Explanation: We can split 4325 so that `num1` is 24 and num2 `is` 35, giving a sum of 59. We can prove that 59 is indeed the minimal possible sum.

Example 2:

Input: num = 687
Output: 75
Explanation: We can split 687 so that `num1` is 68 and `num2` is 7, which would give an optimal sum of 75.

Constraints:

- `10 <= num <= 10^9`

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Yes No

Discussion (3)

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