Find the Key of the Numbers - LeetCode

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3270. Find the Key of the Numbers

You are given three **positive** integers `num1`, `num2`, and `num3`.

The `key` of `num1`, `num2`, and `num3` is defined as a four-digit number such that:

- Initially, if any number has **less than** four digits, it is padded with **leading zeros**.
- The i^{th} digit (`1 <= i <= 4`) of the `key` is generated by taking the **smallest** digit among the i^{th} digits of `num1`, `num2`, and `num3`.

Return the `key` of the three numbers **without** leading zeros (*if any*).

Example 1:

> **Input:** num1 = 1, num2 = 10, num3 = 1000
>
> **Output:** 0
>
> **Explanation:**
>
> On padding, `num1` becomes `"0001"`, `num2` becomes `"0010"`, and `num3` remains `"1000"`.
>
> - The 1^{st} digit of the `key` is `min(0, 0, 1)`.
> - The 2^{nd} digit of the `key` is `min(0, 0, 0)`.
> - The 3^{rd} digit of the `key` is `min(0, 1, 0)`.
> - The 4^{th} digit of the `key` is `min(1, 0, 0)`.
>
> Hence, the `key` is `"0000"`, i.e. 0.

Example 2:

> **Input:** num1 = 987, num2 = 879, num3 = 798
>
> **Output:** 777

Example 3:

> **Input:** num1 = 1, num2 = 2, num3 = 3
>
> **Output:** 1

Constraints:

- `1 <= num1, num2, num3 <= 9999`