1432. Max Difference You Can Get From Changing an Integer

Description

You are given an integer `num`. You will apply the following steps exactly **two** times:

- Pick a digit `x (0 <= x <= 9)`.
- Pick another digit `y (0 <= y <= 9)`. The digit `y` can be equal to `x`.
- Replace all the occurrences of `x` in the decimal representation of `num` by `y`.
- The new integer **cannot** have any leading zeros, also the new integer **cannot** be 0.

Let `a` and `b` be the results of applying the operations to `num` the first and second times, respectively.

Return *the max difference* between `a` and `b`.

Example 1:

```
Input: num = 555
Output: 888
Explanation: The first time pick x = 5 and y = 9 and store the new integer in a.
The second time pick x = 5 and y = 1 and store the new integer in b.
We have now a = 999 and b = 111 and max difference = 888
```

Example 2:

```
Input: num = 9
Output: 8
Explanation: The first time pick x = 9 and y = 9 and store the new integer in a.
The second time pick x = 9 and y = 1 and store the new integer in b.
We have now a = 9 and b = 1 and max difference = 8
```

Constraints:

- `1 <= num <= 10`[8]