

Problem 2566: Maximum Difference by Remapping a Digit

Problem Information

Difficulty: Easy

Acceptance Rate: 76.10%

Paid Only: No

Tags: Math, Greedy

Problem Description

You are given an integer `num`. You know that Bob will sneakily **remap** one of the 10 possible digits (0 to 9) to another digit.

Return the difference between the maximum and minimum values Bob can make by remapping **exactly one** digit in `num`.

Notes:

* When Bob remaps a digit `d1` to another digit `d2`, Bob replaces all occurrences of `d1` in `num` with `d2`. * Bob can remap a digit to itself, in which case `num` does not change. * Bob can remap different digits for obtaining minimum and maximum values respectively. * The resulting number after remapping can contain leading zeroes.

Example 1:

Input: `num = 11891` **Output:** 99009 **Explanation:** To achieve the maximum value, Bob can remap the digit 1 to the digit 9 to yield 99899. To achieve the minimum value, Bob can remap the digit 1 to the digit 0, yielding 890. The difference between these two numbers is 99009.

Example 2:

Input: `num = 90` **Output:** 99 **Explanation:** The maximum value that can be returned by the function is 99 (if 0 is replaced by 9) and the minimum value that can be returned by the function is 0 (if 9 is replaced by 0). Thus, we return 99.

****Constraints:****

***`1 <= num <= 108`**

Code Snippets

C++:

```
class Solution {  
public:  
    int minMaxDifference(int num) {  
  
    }  
};
```

Java:

```
class Solution {  
    public int minMaxDifference(int num) {  
  
    }  
}
```

Python3:

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