2566. Maximum Difference by Remapping a Digit

Solved

Easy | Topics | Companies | Hint

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.

Python3 • Auto

```python
class Solution:
    def minMaxDifference(self, num: int) -> int:
        # always turn the highest siginificant digit into 9 and 0 ?
        s = str(num)
        p = 0
        while p < len(s) and s[p] == '9':
            p += 1

        mmax = s
        mmin = s

        if p < len(s):
            mmax = mmax.replace(s[p], '9')

        mmin = mmin.replace(mmin[0], '0')

        return int(mmax) - int(mmin)
```

str.replace(c1, c2):

replace all c1 in str to c2, not only the first one