Problem 3032: Count Numbers With Unique Digits II

Problem Information

Difficulty: Easy
Acceptance Rate: 87.24%
Paid Only: Yes
Tags: Hash Table, Math, Dynamic Programming

Problem Description

Given two **positive** integers `a` and `b`, return _the count of numbers having **unique** digits in the range_ `[a, b]` _(**inclusive**)._

Example 1:

Input: a = 1, b = 20 **Output:** 19 **Explanation:** All the numbers in the range [1, 20] have unique digits except 11. Hence, the answer is 19.

Example 2:

Input: a = 9, b = 19 **Output:** 10 **Explanation:** All the numbers in the range [9, 19] have unique digits except 11. Hence, the answer is 10.

Example 3:

Input: a = 80, b = 120 **Output:** 27 **Explanation:** There are 41 numbers in the range [80, 120], 27 of which have unique digits.

Constraints:

* `1 <= a <= b <= 1000`

Code Snippets

C++:

```
class Solution {
public:
int numberCount(int a, int b) {

}
};
```

Java:

```
class Solution {
public int numberCount(int a, int b) {

}
}
```

Python3:

```
class Solution:
def numberCount(self, a: int, b: int) -> int:
```