

Problem 357: Count Numbers with Unique Digits

Problem Information

Difficulty: Medium

Acceptance Rate: 55.00%

Paid Only: No

Tags: Math, Dynamic Programming, Backtracking

Problem Description

Given an integer n , return the count of all numbers with unique digits, x , where $0 \leq x < 10^n$.

Example 1:

Input: $n = 2$ **Output:** 91 **Explanation:** The answer should be the total numbers in the range of $0 \leq x < 100$, excluding 11,22,33,44,55,66,77,88,99

Example 2:

Input: $n = 0$ **Output:** 1

Constraints:

$0 \leq n \leq 8$

Code Snippets

C++:

```
class Solution {
public:
    int countNumbersWithUniqueDigits(int n) {
```

```
}  
};
```

Java:

```
class Solution {  
    public int countNumbersWithUniqueDigits(int n) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def countNumbersWithUniqueDigits(self, n: int) -> int:
```