# Problem 1012: Numbers With Repeated Digits

## Problem Information

**Difficulty:** Hard
**Acceptance Rate:** 44.79%
**Paid Only:** No
**Tags:** Math, Dynamic Programming

## Problem Description

Given an integer `n`, return _the number of positive integers in the range_`[1, n]`_that have**at least one** repeated digit_.

**Example 1:**

**Input:** n = 20 **Output:** 1 **Explanation:** The only positive number (<= 20) with at least 1 repeated digit is 11.

**Example 2:**

**Input:** n = 100 **Output:** 10 **Explanation:** The positive numbers (<= 100) with atleast 1 repeated digit are 11, 22, 33, 44, 55, 66, 77, 88, 99, and 100.

**Example 3:**

**Input:** n = 1000 **Output:** 262

**Constraints:**

* `1 <= n <= 109`

## Code Snippets

**C++:**

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

}
};
```

**Java:**

```
class Solution {
public int numDupDigitsAtMostN(int n) {

}
}
```

**Python3:**

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