

# Problem 1067: Digit Count in Range

## Problem Information

**Difficulty:** Hard

**Acceptance Rate:** 46.28%

**Paid Only:** Yes

**Tags:** Math, Dynamic Programming

## Problem Description

Given a single-digit integer `d` and two integers `low` and `high`, return \_the number of times that\_ `d` \_occurs as a digit in all integers in the inclusive range\_ `[low, high]` .

**Example 1:**

**Input:** d = 1, low = 1, high = 13 **Output:** 6 **Explanation:** The digit d = 1 occurs 6 times in 1, 10, 11, 12, 13. Note that the digit d = 1 occurs twice in the number 11.

**Example 2:**

**Input:** d = 3, low = 100, high = 250 **Output:** 35 **Explanation:** The digit d = 3 occurs 35 times in 103,113,123,130,131,...,238,239,243.

**Constraints:**

\* `0 <= d <= 9` \* `1 <= low <= high <= 2 \* 10^8`

## Code Snippets

**C++:**

```
class Solution {
public:
    int digitsCount(int d, int low, int high) {
```

```
}
```

```
};
```

**Java:**

```
class Solution {  
public int digitsCount(int d, int low, int high) {  
  
}  
}
```

**Python3:**

```
class Solution:  
def digitsCount(self, d: int, low: int, high: int) -> int:
```