## 1067. Digit Count in Range Premium

Hard ♥ Topics ② Companies ② Hint

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<sup>8</sup>

Seen this question in a real interview before? 1/5

Yes No

Accepted 4.2K | Submissions 9.2K | Acceptance Rate 46.4%

Topics

Math Dynamic Programming

**Companies** 

0 - 6 months

Amazon (2)

Define a function f(x) to get the requested sum from 1 to x. So the answer will be f(hi) - f(lo - 1)

Q Hint 2

O Hint 1

In order to solve f(x) we need to do a DP over digits approach.

₩ Similar Questions

Discussion (1)

Number of Digit One

Medium

Hard

Sum of Numbers With Units Digit K