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6396. Count of Integers

My Submissions (/contest/weekly-contest-348/problems/count-of-integers/submissions/) Back to Contest (/contest/weekly-contest-348/) You are given two numeric strings num1 and num2 and two integers max_sum and min_sum . We denote an integer x to User Accepted: 0 be good if: User Tried: 0 • num1 <= x <= num2 • min_sum <= digit_sum(x) <= max_sum. 0 Total Accepted: Return the number of good integers. Since the answer may be large, return it modulo $10^9 + 7$. **Total Submissions:** 0 Note that $digit_sum(x)$ denotes the sum of the digits of x. Difficulty: (Hard)

Example 1:

```
Input: num1 = "1", num2 = "12", min_num = 1, max_num = 8
Explanation: There are 11 integers whose sum of digits lies between 1 and 8 are 1,2,3,4,5,6,7,8,10,11, and 12. Thus, we return
```

Example 2:

```
Input: num1 = "1", num2 = "5", min_num = 1, max_num = 5
Output: 5
Explanation: The 5 integers whose sum of digits lies between 1 and 5 are 1,2,3,4, and 5. Thus, we return 5.
```

Constraints:

- 1 <= num1 <= num2 <= 10²²
- 1 <= min_sum <= max_sum <= 400

```
JavaScript
                                                                                                                                                                                                                                                                                                                         ďδ
                                                                                                                                                                                                                                                                                                                                        \mathfrak{C}
           const initialize4DArray = (n, m, p, q) \Rightarrow \{ let r = []; for (let i = 0; i < n; i++) \{ let a = []; for (let j = 0; j < m; j < m;
           j++) { let b = []; for (let k = 0; k < p; k++) { b.push(Array(q).fill(0)); } a.push(b); } r.push(a); } return r; };
           const minus_mod = (x, y, mod) \Rightarrow ((x - y) \% mod + mod) \% mod;
  3
  4
           const ll = BigInt, mod = 1e9 + 7;
  5
           const count = (s, t, l, r) \Rightarrow minus_mod(go(t, l, r), go((ll(s) - 1n).toString(), l, r), mod);
  6
  7 ▼
          const go = (s, l, r) \Rightarrow \{
  8
                      let n = s.length, f = initialize4DArray(n + 1, 2, 2, r + 1);
  9 ▼
                      for (let i = n; i >= 0; i--) {
10 ▼
                                  for (let isLimit = 1; isLimit >= 0; isLimit--) {
11 ▼
                                            for (let isNum = 1; isNum >= 0; isNum--) {
12 ▼
                                                       for (let cnt = r; cnt >= 0; cnt--) {
                                                                   if (i == n) {
13 ▼
                                                                              f[i][isLimit][isNum][cnt] = isNum && l <= cnt && cnt <= r ? 1 : 0;
14
15
16
17
                                                                  let res = 0;
                                                                  if (!isNum) res += f[i + 1][0][0][0];
18
19
                                                                  let L = isNum ? 0 : 1, R = isLimit ? s[i] - '0' : 9;
20 •
                                                                   for (let digit = L; digit <= R; digit++) {</pre>
21 •
                                                                             if (cnt + digit <= r) {
22
                                                                                         res += f[i + 1][(isLimit && R == digit) ? 1 : 0][1][cnt + digit];
23
                                                                                         res %= mod;
24
                                                                             }
25
                                                                   f[i][isLimit][isNum][cnt] = res % mod;
26
27
                                                       }
28
                                           }
29
                                 }
30
31
                      return f[0][1][0][0];
```

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