Number of Digit One (/problems/number-of-digit-one/)

Submission Detail

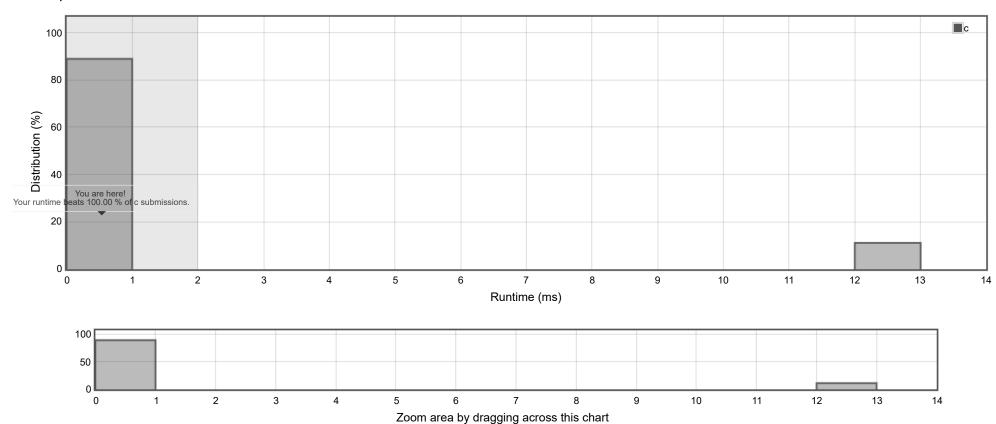
40 / 40 test cases passed.

Status: Accepted

Runtime: 0 ms

Submitted: 1 hour, 13 minutes ago

Accepted Solutions Runtime Distribution



Submitted Code: 1 hour, 13 minutes ago

Language: c Edit Code

```
int countDigitOne(int n) {
 2
        if (n <= 0)
 3
            return 0;
 4
        int ndigits = 0;
 5
        int num = n;
 6
        while (num) {
 7
            ndigits++;
 8
            num /= 10;
 9
10
        int digits[ndigits];
        int nums[ndigits];
11
        for (int i = 0; i < ndigits; i++) {
12
13
            digits[i] = n % 10;
14
            nums[i] = digits[0];
15
            for (int j = 1; j <= i; j++)
                nums[i] += digits[j] * pow(10, j);
16
17
            n /= 10;
18
19
        int DP[ndigits], nines[ndigits + 1];
20
        DP[0] = digits[0] != 0;
21
        nines[0] = 0;
22
        for (int i = 1; i < ndigits; i++) {</pre>
23
            nines[i] = nines[i - 1] * 10 + pow(10, i - 1);
            if (digits[i] == 0)
24
25
                DP[i] = DP[i - 1];
            else if (digits[i] == 1)
26
27
                DP[i] = DP[i - 1] + nums[i - 1] + 1 + nines[i];
28
            else
29
                DP[i] = DP[i - 1] + nines[i] * digits[i] + pow(10, i);
30
31
        return DP[ndigits - 1];
32 }
```

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