PRODUCT COMPANIES PROGRAMS - SET 001

Solved Challenges **1/10**

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Print 1 to N - Digits Count [ZOHO]

ID:3159   Solved By 2894 Users

A positive integer N is passed as the input. If we print all the numbers from 1 to N continuosly, the program must find the number of characters(digits) C printed and print the count C as the output.

Input Format:
The first line contains N.

Output Format:
The first line contains C.

Boundary Conditions:
1 <= N <= 9999999

Example Input/Output 1:
Input:
2

Output:
2

Explanation:
We print 12 and hence the total number of characters is 2.

Example Input/Output 2:
Input:
15

Output:
21

Explanation:
We print 123456789101112131415 and hence the total number of characters is 21.

Max Execution Time Limit: 5000 millisecs

Ambiance

Python3 (3.x)

Reset

```
1   N_str = input()
2   length = len(N_str)
3   N = int(N_str)
4
5   if(length==1):
6       print(N)
7       exit()
8   count = 0
9
10  while(length!=1):
11      count += (N-(10**(length-1))+1)*length
12      N = (10**(length-1))-1
13      length-=1
14
15  print(count+9)
16
17
```

Custom test case has passed.

SUCCESS

You have executed a custom test case. Kindly un-check "Run with a custom test case (Input/Output)" to execute challenge test cases.

Save   Run

☐   Run with a custom test case (Input/Output)