

DP-S008 (E028)

Solved Challenges 1/2

[Back To Challenges List](#)**Decode Ways - Secret Message****ID:4722 Solved By 601 Users**

A top secret message string S containing letters from A-Z (only upper case letters) is encoded to numbers using the following mapping:

'A' -> 1, 'B' -> 2 and so on till Z -> '26'

The program must print the total number of ways in which the received message can be decoded.

Boundary Condition(s):

1 <= Length of S <= 100

Input Format:

The first line contains the string S containing numbers.

Output Format:

The first line contains the number of ways in which S can be decoded.

Example Input/Output 1:

Input:

123

Output:

3

Explanation:

1-A 2-B 3-C 12-L 23-W.

Hence 123 can be decoded as ABC or AW or LC, that is in 3 ways.

Example Input/Output 2:

Input:

1290

Output:

0

Max Execution Time Limit: 500 millisecs

Python3 (3.x) ▾



[Reset](#)

```
1 string = input()
2 ways = 1
3 prevways = 1
4 if(string[-1] == '0'):
5     ways = 0
6
7 for index in range(len(string)-2,-1,-1):
8     backup = prevways
9     prevways = ways
10    if(string[index] == '0'):
11        ways=0
12        continue
13    twoDigitVal = int(string[index:index+2])
14    if(twoDigitVal<=26):
15        ways+=backup
16    print(index)
17
18 print(ways)
19
```

Code did not pass the execution

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TestCase ID: 14070

Input:

12345

Expected Output:

3

Your Program Output:

3
2
1

0
1

Save

Run

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