SkillRack

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PRODUCT COMPANIES PROGRAMS - SET 001   **ProgramID- 3441**   ✅ **SKILLRACK**

Decode Ways - Secret Message [ZOHO]

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 has to print the total number of ways in which the received message can be decoded.

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.

Boundary Conditions:
1 <= Length of S <= 100

Example Input/Output 1:
Input:
123

Output:
3

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

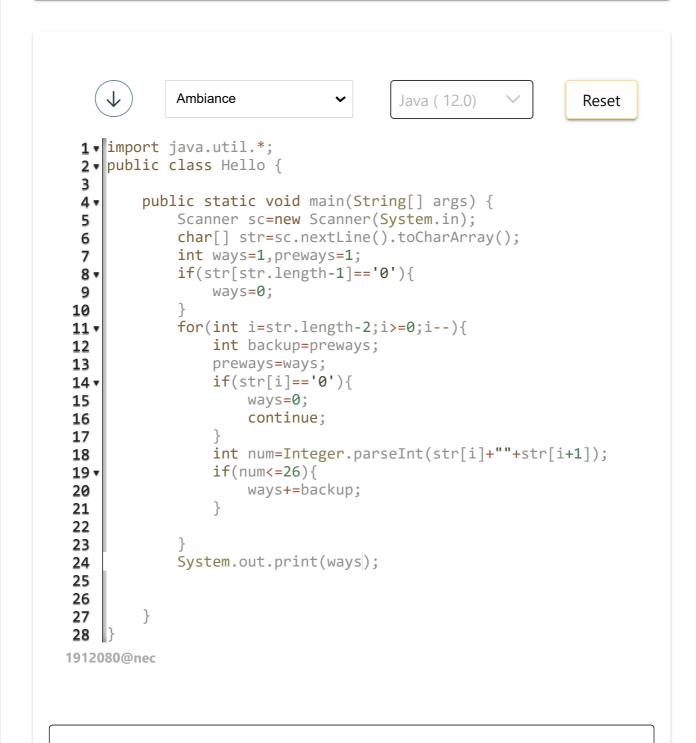Hence 123 can be decoded as ABC or AW or LC, that is in 3 ways.

Example Input/Output 2:
Input:
1290

Output:
0

Max Execution Time Limit: 5000 millisecs

Ambiance ⌄   Java (12.0) ⌄   Reset

```java
1  import java.util.*;
2  public class Hello {
3
4      public static void main(String[] args) {
5          Scanner sc=new Scanner(System.in);
6          char[] str=sc.nextLine().toCharArray();
7          int ways=1,preways=1;
8          if(str[str.length-1]=='0'){
9              ways=0;
10         }
11         for(int i=str.length-2;i>=0;i--){
12             int backup=preways;
13             preways=ways;
14             if(str[i]=='0'){
15                 ways=0;
16                 continue;
17             }
18             int num=Integer.parseInt(str[i]+""+str[i+1]);
19             if(num<=26){
20                 ways+=backup;
21             }
22
23         }
24         System.out.print(ways);
25
26
27      }
28  }
```

Code did not pass the execution   —

Input:

12345

Expected Output:

3

Your Program Output:

30

Save   Run

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