**[Total Decoding Messages](https://www.geeksforgeeks.org/problems/total-decoding-messages1235/1)**

A message containing letters A-Z is being encoded to numbers using the following mapping:

'A' -> 1  
'B' -> 2  
...  
'Z' -> 26

You are given a string **digits**. You have to determine the **total number of ways** that message can be decoded.

**Examples:**

**Input:** digits = "123"

**Output:** 3

**Explanation:** "123" can be decoded as "ABC"(1, 2, 3), "LC"(12, 3) and "AW"(1, 23).

**Input:** digits = "90"  
**Output:** 0

**Explanation:** "90" cannot be decoded, as it's an invalid string and we cannot decode '0'.

**Input:** digits = "05"

**Output:** 0

**Explanation:** "05" cannot be mapped to "E" because of the leading zero ("5" is different from "05"), the string is not a valid encoding message.

**Constraints:**  
1 ≤ digits.size() ≤ 103