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

'A' -> 1

'B' -> 2

...

'Z' -> 26

Given a **non-empty** string containing only digits, determine the total number of ways to decode it.

**Example 1:**

**Input:** "12"

**Output:** 2

**Explanation:** It could be decoded as "AB" (1 2) or "L" (12).

**Example 2:**

**Input:** "226"

**Output:** 3

**Explanation:** It could be decoded as "BZ" (2 26), "VF" (22 6), or "BBF" (2 2 6).