
Shagun loves Puzzles

Input file: standard input
Output file: standard output
Time limit: 2 second
Memory limit: 256 megabytes

Shagun loves to solve puzzles in her spare time. Now, in this current situation of lockdown in the country, she has come up with a new plan to reduce her boredom.

Before sending a text message(letter from A-Z) to someone, she encodes the message to numbers(0-9) using the following mapping:

'A' → 1
'B' → 2
...
'Z' → 26

Can you help the recipients of her message find the total possible decodings that they can get from her message?

Input

The first and the only argument is a numerical string A (consisting of only digits i.e., 0-9)
 $1 \leq \text{length}(A) \leq 10^5$

Output

Output one integer - numbers of ways to decode the string.

Note: The test cases are such that your answer will not be more than 4 bytes long.

Example

standard input	standard output
"8"	1
"12"	2

Explanation

1. For the encoded message "8", it could be decoded as only "H" (8).
 2. For the encoded message "12", it could be decoded as "AB" (1, 2) or "L" (12). Hence, the number of ways decoding "12" is 2.
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