

Roro had a sentence composed Solely of 2 letters: m and n. She had to send that sentence to her friend Zozo. Roro had that sentence as an image and wanted transform that image into a text-document that would then be forwarded to Zozo. For that, Roro had to use OCR, or Optical Character Recognition. However, the application used couldn't differentiate between the letters m and n. Therefore, it converted each letter m to nn. In other words, if the sequence to be converted is mmn, the result of conversion would be nnnnn. Simply, each letter n was recognized correctly as n, and each letter m was recognized as 2 n letters

Zozo received the document after conversion and couldn't find out what the initial sentence was. Zozo knew that the OCR application was malfunctioning and understood that each letter m was converted to nn. She thus wondered what is the number of possible different sentences that, when converted, would give the same result as the one she received.

For example, if the received sentence were “nnnn”, there would be 5 possible strings that would give this after conversion: nnnn, mnn, nmm, nmn and mm. Each of the given sequence would be converted to nnnn when Roro used the malfunctioning OCR application.

Zozo asked for your help. But you suggested that the result might be so large. So Zozo asked you to calculate the remainder of the division of the result by 100. This way, the result is guaranteed to be an integer between 0 and 99 inclusively.

Input format: a non empty string, formed of lowercase English letters, whose size is at most 2×10^5 .

Output format: a single integer showing the required result. In case there were no possible strings that would be converted to the input string, print 0.

Sample input 1: mmnnnn

Sample output 1: 0

Explanation 1: Since the application converts each letter m to 2 letters n, there is 0 possible strings that could give this input.

Sample input 2: nn

Sample output 2: 2

Explanation 2: The possible initial strings are: "nn" and "m".

[illegible]

Sample output 3: 69

Explanation 3: The remainder of division of the result by 100 is 69.