



STUDENT REPORT

DETAILS

Name

Saleha B

Roll Number

3BR23EE083

EXPERIMENT

Title

MINIMUM NUMBER OF KEY PRESSES

Description

George has a setup which includes a special keyboard and a monitor , that initially displays 0. The special keyboard has 11 numeric keys (0,1,2,3,4,5,6,7,8,9,00). If he presses 00, the previously displayed value will be multiplied by 100. Whereas, if he presses any other numeric key, the previously displayed value will be firstly multiplied by 10 and then the number on the key will be added to it

You are given a numeric string S. Your task is to help George find and return an integer value, representing the minimum number of key presses to reach the number.

Input Specification:

input: A numeric string s. representing the final number,

Output Specification:

Return an integer value, representing the minimum number of key presses to reach the number.

Sample Input:

100

Sample Output:

2

Source Code:

```
def min_key_presses(s):
    n = len(s)
    i = 0
    presses = 0

    # Traverse the string and calculate minimum presses
    while i < n:
        if i + 1 < n and s[i] == '0' and s[i + 1] == '0':
            # If we encounter "00", count it as one press and skip the next character
            presses += 1
            i += 2
        else:
            # For any other single digit, count it as one press
            presses += 1
            i += 1

    return presses

# Sample Input
s = input().strip()

# Output the result
print(min_key_presses(s))
```

RESULT

6 / 6 Test Cases Passed | 100 %