# STUDENT REPORT

## DETAILS

**Name**

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**Roll Number**

22BI24EE410-T

## 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)
    presses = 0
    i = 0

    while i < n:
        # If there are two consecutive '0's, use the '00' key
        if i < n - 1 and s[i] == '0' and s[i+1] == '0':
            presses += 1  # One press for the '00' key
            i += 2  # Move the pointer by 2 positions
        else:
            presses += 1  # Press the current digit key
            i += 1  # Move the pointer by 1 position

    return presses

# Sample usage
s = input()  # Input the string representing the final number
print(min_key_presses(s))
```

## RESULT

6 / 6 Test Cases Passed | 100 %