Logo

STUDENT REPORT

DETAILS

Name

SIDIGONDE BHARATH KUMAR

Roll Number

TEMPBTech-ECE004

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 = int(s) # Convert the input string to an integer

    presses = 0 # Initialize the number of presses

    while n > 0:
        if n % 100 == 0:
            n //= 100 # If divisible by 100, simulate pressing "00"
        else:
            last_digit = n % 10 # Get the last digit (0=-9)
            n -= last_digit # Subtract the last digit
            n //=10 # Divide the remaining number by 10

        presses += 1 # Increment the key presses

    return presses

# Input reading
s = input().strip() # Read the input string

# Calculate and print the minimum number of key presses
result = min_key_presses(s)
print(result)
```

RESULT

6 / 6 Test Cases Passed | 100 %