Logo

STUDENT REPORT

DETAILS

Name

CHETANKUMAR PATTAR

Roll Number

22BI24CS403-T

EXPERIMENT

Title

FINDING COMMAS

Description

Liam works as a data analyst for a company that stores massive amounts of numerical data. He has been tasked with determining how many commas are used when writing numbers in the range of 1 to N (inclusive) in a specific format

In this format, if numbers are more than four digits long, commas are used to separate the numbers into groups of three, starting from the right for the representation of the number. Your task is to help Liam find and return an integer value, representing the total number of commas used when writing each integer in the range of 1 to N

Input Specification:

Input: An integer value N. representing the number range.

Output Specification:

Return an integer value, representing total number of commas used when writing each integer in the range of 1 to N.

Sample Input:

5000

Sample Output:

4001

Source Code:

```python
def findingCommas(n):
    total=0
    digits=len(str(n))
    for i in range(1,digits):
        commas_per_number=(i-1)//3
        how_many_nums=9*(10**(i-1))
        total+=commas_per_number*how_many_nums
    commas_per_number=(digits-1)//3
    how_many_nums=(n-(10**(digits-1)))+1
    total+=commas_per_number*how_many_nums
    return total


n=int(input())
print(findingCommas(n))
```

RESULT

5 / 5 Test Cases Passed | 100 %