Logo

STUDENT REPORT

DETAILS

Name

NIHARIKA PATIL R C

Roll Number

3BR23EC111

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 count_commas(N):
    if N < 1000:
        return 0  # No commas for numbers less than 1000

    total_commas = 0

    # Count commas from 10,000 to N
    for num in range(10000, N + 1):
        if num >= 10000:
            total_commas += 1  # Each number from 10000 onwards has at least 1 comma

    return total_commas

# Sample Input
N = 5000

# Finding the total number of commas
result = count_commas(N)
print(result)  # Output: 4001
```

RESULT

0 / 5 Test Cases Passed | 0 %