STUDENT REPORT

DETAILS

Name

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EXPERIMENT

Title

DIGIODD

Description

You are provided with a number N. Count and print the number of integers x that follow the following

Conditions:

- 1<=x<=N
- x have odd number of digits.

Input Format:

The input consists of a single line:

• The line contains a single integer denoting N.

Input will be read from the STDIN by the candidate

Output Format:

Print the count of integers fulfilling the given conditions.

The output will be matched to the candidate's output printed on the STDOUT

Constraints:

1<=N<=1000000

Sample Input:

10

Sample Output:

9

Source Code:

```
def count_odd_digit_numbers(N):
    count = 0

    # Count 1-digit numbers
    if N >= 1:
        count += min(N, 9)

    # Count 3-digit numbers
    if N >= 100:
        count += min(N - 100 + 1, 900)

    # Count 5-digit numbers
    if N >= 10000:
        count += min(N - 10000 + 1, 90000)

    # Count 7-digit numbers
    if N >= 1000000:
        count += 1  # 1000000 is the only 7-digit number

    return count

# Input handling
N = int(input().strip())

# Get the count of integers with odd number of digits
result = count_odd_digit_numbers(N)

# Print the result
print(result)
```

RESULT

5 / 5 Test Cases Passed | 100 %