10.5.2018 HackerRank





PRACTICE COMPETE JOBS

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Practice > Mathematics > Fundamentals > Summing the N series

Summing the N series ☆

Problem	Submissions	Leaderboard	Discussions	Editorial	Topics
Mandarin Russian Japanese					Author
You are given a sequence whose $m{n^{ ext{th}}}$ term is					Difficulty Max Score
Tod die giverra					Submitted By
	T_n	$= n^2 - (n-1)^2$,
You have to e	evaluate the series				NEED HELP?
$S_n = T_1 + T_2 + T_3 + \cdots + T_n$					View discu
Find $S_n mod$	$1.(10^9 \pm 7)$				☐ View edito
	1 (10 1).				Ф View top s
Input Format					RESOURCES
	input contains $m{T}$, the n	iumber of test cases. taining a single integer n			Closed Fo
	consists of one line com	tailling a single integel 7			
Constraints					RATE THIS CHA
• $1 \le T \le 10$	0				Δ Δ Δ 5
• $1 \le n \le 10$	0^{16}				MORE DETAI
. .					⊥ Download
Output Forma					 Download
For each test ca	ase, print the required a	nswer in a line.			Suggest E
Sample Input	0				
2					
1					
Sample Outpu	it 0				

Topics
Author shashank21j
Difficulty Medium
Max Score 20
Submitted By 16537
NEED HELP?
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RESOURCES
Closed Form
RATE THIS CHALLENGE
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MORE DETAILS
Download problem statement
f y in

```
Java 7
                                                                       K Z SS
Current Buffer (saved locally, editable) 🔑 😗
 1 ▼ import java.io.*;
 2 import java.math.*;
 3 import java.text.*;
    import java.util.*;
    import java.util.regex.*;
    public class Solution {
```

Explanation 0

Case 1: We have $\mathbf{4} = \mathbf{1} + \mathbf{3}$ Case 2: We have 1 = 1

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```
8 🔻
  9 🔻
           * Complete the summingSeries function below.
 10
 11
 12 ▼
          static int summingSeries(long n) {
 13 🔻
 14
               * Write your code here.
 15
 16
 17
 18
          private static final Scanner scanner = new Scanner(System.in);
 19
 20
          public static void main(String[] args) throws IOException {
 21
              BufferedWriter bufferedWriter = new BufferedWriter(new
 22
      FileWriter(System.getenv("OUTPUT_PATH")));
 23
              int t = Integer.parseInt(scanner.nextLine().trim());
 24
 25
 26 ▼
              for (int tItr = 0; tItr < t; tItr++) {</pre>
 27
                  long n = Long.parseLong(scanner.nextLine().trim());
 28
 29
                  int result = summingSeries(n);
 30
 31
                  bufferedWriter.write(String.valueOf(result));
 32
                  bufferedWriter.newLine();
 33
              }
 34
 35
              bufferedWriter.close();
 36
          }
 37
      }
 38
                                                                   Line: 1 Col: 1
1 Upload Code as File
                  Test against custom input
                                                   Run Code
                                                                   Submit Code
```

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