At the annual meeting of Board of Directors of Acme Inc. If everyone attending shakes hands exactly one time with every other attendee, how many handshakes are there?

Example

There are attendees, , and . shakes hands with and , and shakes hands with . Now they have all shaken hands after handshakes.

Function Description

Complete the handshakes function in the editor below.

Handshakes has the following parameter:

Int n: the number of attendees

Returns

Int: the number of handshakes

Input Format

The first line contains the number of test cases .

Each of the following lines contains an integer, .

Constraints

Sample Input

2

1

2

Sample Output

0

1

Explanation

Case 1 : The lonely board member shakes no hands, hence 0.

Case 2 : There are 2 board members, so 1 handshake takes place.

Submissions: 131

Max Score: 10

Difficulty: Easy

Rate This Challenge:

More

Return sum(range(n))

1

#!/bin/python3

2

3

Import math

4

Import os

5

Import random

6

Import re

7

Import sys

8

9

#

10

# Complete the ‘handshake’ function below.

11

#

12

# The function is expected to return an INTEGER.

13

# The function accepts INTEGER n as parameter.

14

#

15

16

Def handshake(n):

17

# Write your code here

18

Return sum(range(n))

19

20

If \_\_name\_\_ == ‘\_\_main\_\_’:

21

Fptr = open(os.environ[‘OUTPUT\_PATH’], ‘w’)

22

23

T = int(input().strip())

24

25

For t\_itr in range(t):

26

N = int(input().strip())

27

28

Result = handshake(n)

29

30

Fptr.write(str(result) + ‘\n’)

31

32

Fptr.close()

33

Line: 18 Col: 25

Run Code Submit CodeUpload Code as File

Test against custom input

Testcase 0

Congratulations, you passed the sample test case.

Click the Submit Code button to run your code against all the test cases.

Input (stdin)

2

1

2

Your Output (stdout)

0

1

Expected Output

0

1