

Begin: 2022-06-30
22:00 BST

UAP Beginner Practice Contest 1

End: 2022-07-06
06:00 BST

Elapsed: 15:04:08

Running

Remaining:
112:55:51

[Overview](#)

[Problem](#)

[Status](#)

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B - Handshake



Saif is very clever, highly skilled in mathematics, and loves to solve math problems a lot. He arranged a party for all his friends at his place. He invited N friends. Now he wants to calculate the total numbers of handshakes by all his N friend. If any two friends shake hands exactly once. Can you write a program for saif to count the total number of handshakes?

Input

The first line contains an integer T , total number of test cases. Then follow T line, each line contains single integer N , saif's friends count.

Output

Print single line output for each test case, total number of handshakes.

Constraints

- $1 \leq T \leq 10^2$
- $1 \leq N < 10^6$

Sample input

2

5

123

Sample output

10

7503





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Server Time: 2022-07-01 13:04:08 BST

