

Basketball

Description

HH likes to play basketball very much. Actually, He is a talented basketball player. He scores everytime he shoot the ball.

As usual, HH scores N points this night and beats his opponent again. But, HH forgets how many balls he shot.

Thus, HH wonders how many possible combination of 2-points shot and 3-points shot he made tonight.

One combination is different to another one if and only if the number of 2-points shot or 3-points shot is different.

Input

The first line contains an integer T indicating the total number of test cases. Each test case contains one line with one integer N .

- $1 \leq T \leq 10^5$
- $1 \leq N \leq 10^9$

Output

For each test case, please output one line indicating the number of possible combination of 2-points shot and 3-points shot HH could make.

Sample Input

3
2
3
6

Sample Output

1
1
2