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All Competitions > BFME 1.0 > DASHAN AND PYTHAGOREAN TRIPLETS

DASHAN AND PYTHAGOREAN **TRIPLETS**



by failed_coder

Problem

Submissions

Leaderboard

Discussions

Dashan has been assigned to find the number of Pythagorean triplets from zero to a given number n such that the difference between the two biggest numbers is one i.e., if a, b and c are three numbers such that: $c^2 = a^2 + b^2$ and b > a, $c \le n$ then c - b = 1. But Dashan has to prepare for his mid semester examination and he needs your help. Note: Smallest pythagorean triplet is (3, 4, 5).

Input Format

The first line contains a single integer T - the number of test cases The next T lines contains a single integer n – as described in the problem

Constraints

T ≤ 1000000

 $5 \le n \le 1000000$

Output Format

Print a single integer for each test case, the number of required triplets such that the value of c is less than or equal to n.

Sample Input 0

15

Sample Output 0

2

Explanation 0

There are 2 triplets (3,4,5), (5,12,13) which satisfy given conditions. In first triplet c = 5(<=15) and b = 4(=c-1). In second triplet c = 13(=5)<=15) and b = 12(=c-1).

Sample Input 1

2

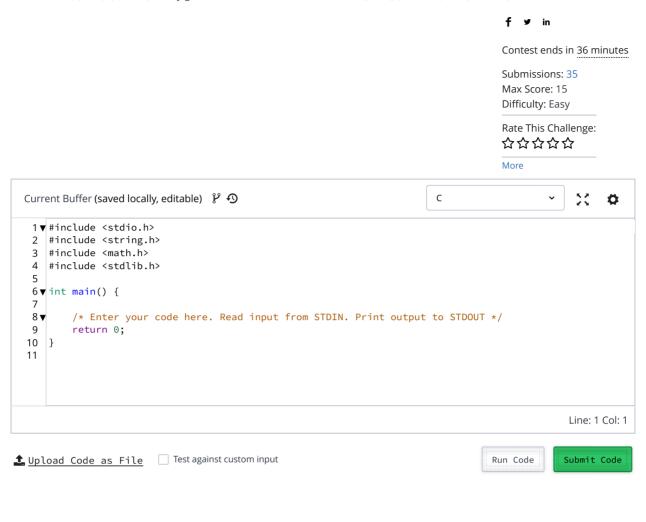
20 30

Sample Output 1

3

Explanation 1

1 of 2 02/09/18, 10:58 PM First testcase, (3,4,5), (5,12,13) satisfy given conditions. For second testcase, (3,4,5), (5, 12, 13) and (7, 24, 25).



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2 of 2 02/09/18, 10:58 PM