# Problem N. Candies and Two Sisters

**Time limit** 1000 ms **Mem limit** 262144 kB

There are two sisters Alice and Betty. You have n candies. You want to distribute these n candies between two sisters in such a way that:

- Alice will get a (a > 0) candies;
- Betty will get b (b > 0) candies;
- each sister will get some **integer** number of candies;
- Alice will get a greater amount of candies than Betty (i.e. a > b);
- all the candies will be given to one of two sisters (i.e. a + b = n).

Your task is to calculate the number of ways to distribute exactly n candies between sisters in a way described above. Candies are indistinguishable.

Formally, find the number of ways to represent n as the sum of n=a+b, where a and b are positive integers and a>b.

You have to answer t independent test cases.

#### Input

The first line of the input contains one integer t ( $1 \le t \le 10^4$ ) — the number of test cases. Then t test cases follow.

The only line of a test case contains one integer n ( $1 \le n \le 2 \cdot 10^9$ ) — the number of candies you have.

### Output

For each test case, print the answer — the number of ways to distribute exactly n candies between two sisters in a way described in the problem statement. If there is no way to satisfy all the conditions, print 0.

#### Sample 1

Input	Output
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## NSUPS Bootcamp S13 W2: Primality, Divisors, NOD, SOD in O(sqrt(n)); Modular Arithmetic

Input	Output
6	3
7	0
1	0
2	1
3	99999999
200000000 763243547	381621773

## Note

For the test case of the example, the 3 possible ways to distribute candies are:

- a = 6, b = 1;
- a = 5, b = 2;
- a = 4, b = 3.