# **Check the coprimeness**

Find largest non-negative number less than or equal to floor (N/2) which is coprime to N.

Two number a and b are considered to coprime if gcd(a, b) = 1.

## Input

T : numbr of test cases (T <= 1000)

For next T lines, every line contains  $n \ge 1 \& \& n \le 10^{12}$ ;

## Output

For each test case, output as described in the problem statement.

# Example

#### Input:

### Output:

- 1
- 1
- 2
- 49