

## A. Maximum GCD

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

Let's consider all integers in the range from  $1$  to  $n$  (inclusive).

Among all pairs of **distinct** integers in this range, find the maximum possible greatest common divisor of integers in pair. Formally, find the maximum value of  $\gcd(a, b)$ , where  $1 \leq a < b \leq n$ .

The greatest common divisor,  $\gcd(a, b)$ , of two positive integers  $a$  and  $b$  is the biggest integer that is a divisor of both  $a$  and  $b$ .

### Input

The first line contains a single integer  $t$  ( $1 \leq t \leq 100$ ) — the number of test cases. The description of the test cases follows.

The only line of each test case contains a single integer  $n$  ( $2 \leq n \leq 10^6$ ).

### Output

For each test case, output the maximum value of  $\gcd(a, b)$  among all  $1 \leq a < b \leq n$ .

### Example

input	Copy
2 3 5	
output	Copy
1 2	

### Note

In the first test case,  $\gcd(1, 2) = \gcd(2, 3) = \gcd(1, 3) = 1$ .

In the second test case,  $2$  is the maximum possible value, corresponding to  $\gcd(2, 4)$ .

### Codeforces Round #651 (Div. 2)

Finished

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#### → Problem tags

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[number theory](#) [\\*800](#)

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#### → Contest materials

- Announcement (en) 
- Tutorial (en) 