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ETF - Euler Totient Function

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In number theory, the totient φ of a positive integer n is defined to be the number of positive integers less than or equal to n that are coprime to n.

Given an integer n (1 <= n <= 10^6). Compute the value of the totient φ.

Input

First line contains an integer T, the number of test cases. (T <= 20000)

T following lines, each contains an integer n.

Output

T lines, one for the result of each test case.

Example

```
Input:
5
1
2
3
4
5

Output:
1
1
2
2
4
```

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Date:	2009-03-27
Time limit:	0.161s
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Memory limit:	1536MB
Cluster:	Cube (Intel G860) (/clusters/)
Languages:	All except: ERL JS-RHINO NODEJS PERL6 VB.NET

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✔ be spoj user for at least 5 days
✖ solved 9 from 15 needed problems

✔ solve this problem

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