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My status (/status/ETF,aziz\_tousli1/) Status (/status/ETF/) Ranking (/ranks/ETF/)

# **ETF - Euler Totient Function**

#number-theory (/problems/tag/number-theory) #totient (/problems/tag/totient)

In number theory, the totient  $\phi$  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  $\leq$  n  $\leq$  10^6). Compute the value of the totient  $\varphi$ .

### Input

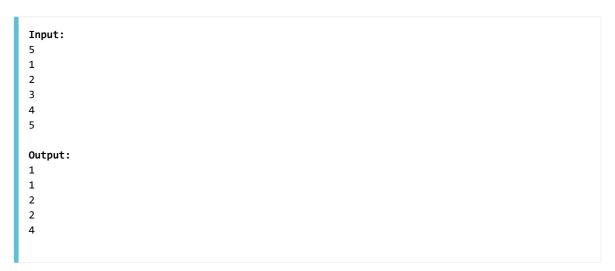
First line contains an integer T, the number of test cases. (T <= 20000)

T following lines, each contains an integer n.

## Output

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

# Example



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### Notes:

- 1. Don't post any source code here.
- 2. Please be careful, leave short comments only. Don't spam here.
- 3. For more discussion (hints, ideas, solutions) please visit our forum (/forum).
- 4. Authors of the problems are allowed to delete the post and use html code here (e.g. to provide some useful links).

✓ Submit solution! (/submit/ETF/)



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Added by: Race with time (/users/racer)

Date: 2009-03-27
Time limit: 0.161s
Source limit: 50000B
Memory limit: 1536MB

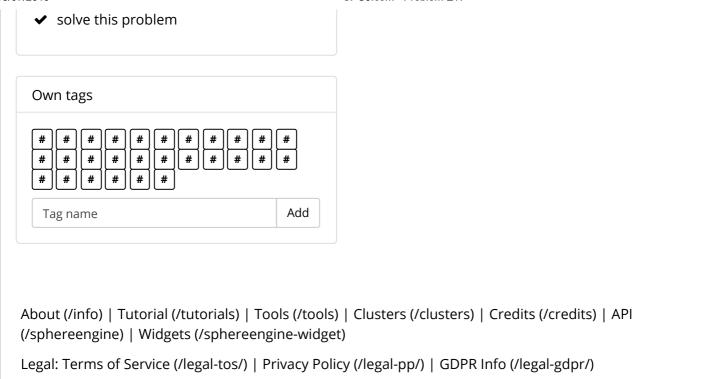
Cluster: Cube (Intel G860) (/clusters/)

Languages: All except: ERL JS-RHINO NODEJS PERL6 VB.NET

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