



# PEKING UNIVERSITY

#### JUNGE ՍՈԼԱՄԲ FUR ACID/ICPC

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Problem Set					
Problems Submit Problem Online Status					
				Prob.ID:	Go

Authors					
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Authors ranklist					

	Online Contests
	<b>Current Contest</b>
	Past Contests
	<b>Scheduled Contests</b>
	Award Contest
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	User		
User ID:			
Password:			
login Reg	ister		

Language: Default V

Longge's problem

Time Limit: 1000MS Memory Limit: 65536K

Total Submissions: 8707 Accepted: 2917

# **Description**

Longge is good at mathematics and he likes to think about hard mathematical problems which will be solved by some graceful algorithms. Now a problem comes: Given an integer  $N(1 \le N \le 2^31)$ , you are to calculate  $\sum \gcd(i, N) \ 1 \le i \le N$ .

"Oh, I know, I know!" Longge shouts! But do you know? Please solve it.

#### Input

Input contain several test case. A number N per line.

### **Output**

For each N, output  $\sum \gcd(i, N) 1 \le i \le N$ , a line

# **Sample Input**

# **Sample Output**

3 15

## Source

POJ Contest, Author: Mathematica@ZSU

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