1050 - Coprimes

Description

For given integer **N (1 <= N <= 10^4)** find the amount of positive numbers not greater than **N** that coprime with **N**. Let us call two positive integers (say, **A** and **B**, for example) coprime if (and only if) their greatest common divisor is 1. (i.e. **A** and **B** are coprime if **gcd(A,B) = 1**).

Input specification

Input contains integer **N**.

Output specification

Write answer in standard output.

Sample input

9

Sample output

6

Hint(s)

Source	Saratov State University :: Online Contester
Added by	**ejaltuna**
Addition date	2011-10-13 09:22:16.0
Time limit (ms)	1000
Test limit (ms)	250
Memory limit (kb)	130000
Output limit (mb)	64
Size limit (bytes)	100000

Enabled languages	C C# C++ Java Pascal Perl PHP Python Ruby Text