

1050 - Coprimes

Description

For given integer **N** ($1 \leq N \leq 10^4$) 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 $\text{gcd}(\mathbf{A}, \mathbf{B}) = 1$).

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