

## 102. Coprimes

time limit per test: 0.25 sec.  
memory limit per test: 4096 KB

For given integer  $N$  ( $1 \leq N \leq 10^4$ ) find 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 iff  $\gcd(A, B) = 1$ ).

### Input

Input file contains integer  $N$ .

### Output

Write answer in output file.

Sample Input

9

Sample Output

6