

A. Almost Prime

time limit per test

2 seconds

memory limit per test

256 megabytes

input

standard input

output

standard output

A number is called almost prime if it has exactly two distinct prime divisors. For example, numbers 6, 18, 24 are almost prime, while 4, 8, 9, 42 are not. Find the amount of almost prime numbers which are between 1 and n , inclusive.

Input

Input contains one integer number n ($1 \leq n \leq 3000$).

Output

Output the amount of almost prime numbers between 1 and n , inclusive.

Examples

input

Copy

10

output

Copy

2

input

Copy

21

output

Copy

8