CODE FORCES
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PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

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 ($1 \le n \le 3000$).

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	

→ Attention

Package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then value 800 ms will be displayed and used to determine the verdict.

Codeforces Beta Round #26 (Codeforces format)

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags

number theory *900

No tag edit access

→ Contest materials

- Announcement
- Tutorial #1
- Tutorial #2 (ru)

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