



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🖫 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

A. Calculating Function

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

For a positive integer n let's define a function f:

$$f(n) = -1 + 2 - 3 + .. + (-1)^n n$$

Your task is to calculate f(n) for a given integer n.

Input

The single line contains the positive integer n ($1 \le n \le 10^{15}$).

Output

Print f(n) in a single line.

Examples

input			
4			
output			
2			

input		
5		
output		
-3		

Note

$$f(4) = -1 + 2 - 3 + 4 = 2$$

$$f(5) = -1 + 2 - 3 + 4 - 5 = -3$$

Codeforces Round #277 (Div. 2)

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 ACM-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 (implementation) (math) No tag edit access

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→ Contest materials

- Announcement
- Tutorial

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Desktop version, switch to mobile version.