ICPC Assiut University Community
Newcomers Training ,Do Your Best

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PROBLEMS   SUBMIT CODE   MY SUBMISSIONS   STATUS   STANDINGS   CUSTOM INVOCATION

P. Calculating Function

time limit per test: 1 second❓
memory limit per test: 256 megabytes

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

$$f(n) = -1 + 2 - 3 + .. + (-1)^n n$$
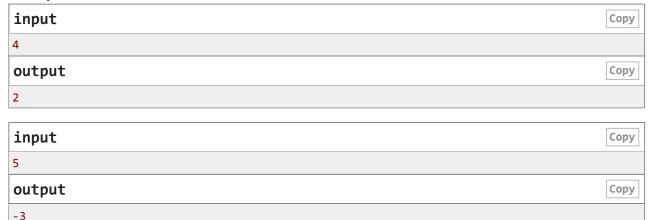
Your task is to calculate $f(n)$ for a given integer n.

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	Copy
4	

output	Copy
2	

input	Copy
5	

output	Copy
-3	

→ About Group

ICPC Assiut
community

Group website

Note

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

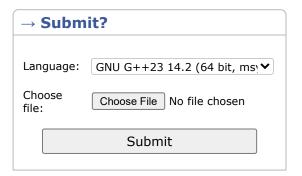$f(5) = -1 + 2 - 3 + 4 - 5 = -3$

→ About Time Scaling ⌄

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the link.

→ 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

→ Submit?

Language: GNU G++23 14.2 (64 bit, msⅴ ❯

Choose file: Choose File   No file chosen

Submit