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sanjaymadaan87 | Logout

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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 ($1 \leq n \leq 10^{15}$).

Output

Print $f(n)$ in a single line.

Examples

input	Copy
4	

output	Copy
2	

input	Copy
5	

output	Copy
-3	

Note

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

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

Codeforces Round 277 (Div. 2)

Finished
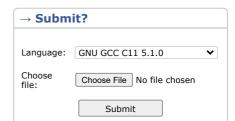
Practice

⭐

→ 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]

→ Clone Contest to Mashup ⌄

You can clone this contest to a mashup.

[Clone Contest]

→ Submit?

Language: [GNU GCC C11 5.1.0 ⌄]

Choose file: [Choose File] No file chosen

[Submit]

→ Last submissions

Submission	Time	Verdict
224690827	Sep/23/2023 06:53	**Accepted**
224690747	Sep/23/2023 06:51	Wrong answer on test 1
224690675	Sep/23/2023 06:49	Wrong answer on test 5
224690543	Sep/23/2023 06:47	Compilation error
224690474	Sep/23/2023 06:46	Compilation error

→ Problem tags

implementation   math   *800

No tag edit access

→ Contest materials

- Announcement (en)   ✕
- Tutorial (en)   ✕

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