

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 :

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

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: PyPy 3.7 (7.3.5, 64bit)

Choose file: Choose File No file chosen

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

Submit

→ Last submissions



Submission	Time	Verdict
132658876	Oct/22/2021 05:01	Time limit exceeded on test 3
132658199	Oct/22/2021 04:35	Time limit exceeded on test 3

→ Problem tags

implementation math *800

No tag edit access

[→ Contest materials](#)

- [Announcement \(en\)](#) 
- [Tutorial \(en\)](#) 

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