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

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