

## 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  $f$ :

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

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

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

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