## D. Calculating Function

Time limit: 1s

Memory limit: 256 MB

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**

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-	n	n		•
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4

## output

2

# input

5

# output

- 3

#### Note

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

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