

Challenge 10.2: Tricky Function

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 .

NOTE: Solve this problem without using any loop or recursion.

Input Constraints:

The single line contains the positive integer n ($1 \leq n \leq 1015$).

Output Constraint:

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

Examples:

Input 1:

4

Output 1:

2

Input 2:

5

Output 2:

-3

Explanation:

◆ $f(4) = -1 + 2 - 3 + 4 = 2$

◆ $f(5) = -1 + 2 - 3 + 4 - 5 = -3$