# **ICPC Assiut University Community**

# **Newcomers Training , Do Your Best**

HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

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 ( $1 \le n \le 10^{15}$ ).

#### **Output**

Print f(n) in a single line.

#### **Examples**

input	Сору
4	
output	Сору
2	
input	Сору
5	
output	Сору

# Note

-3

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

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

# <u>Assiut University Training -</u> <u>Newcomers</u>

#### **Public**

# Participant



# → About Group ICPC Assiut community Group website

# → **Group Contests**



- Sheet #10 (General Hard)
- Sheet #9 (General medium)
- Sheet #8 (General easy)
- Sheet #7 (Recursion)
- Sheet #6 (Math Geometry)
- Sheet #5 (Functions)
- Sheet #4 (Strings)
- Contest #3.1
- Sheet #3 (Arrays)
- Contest #2
- Sheet #2 (Loops)
- Contest #1
- Sheet #1 (Data type Conditions)

## Sheet #9 (General medium)

## **Finished**

**Practice** 



### → About Time Scaling

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the link.