G - Calculating Function

For a positive integer *n* let's define a function *f*:

*f*(*n*) =  - 1 + 2 - 3 + .. + ( - 1)*nn*

Your task is to calculate *f*(*n*) for a given integer *n*.

**Input**

The single line contains the positive integer *n* (1 ≤ *n* ≤ 1015).

**Output**

Print *f*(*n*) in a single line.

**Examples**

**Input**

4

**Output**

2

**Input**

5

**Output**

-3

**Note**

*f*(4) =  - 1 + 2 - 3 + 4 = 2

*f*(5) =  - 1 + 2 - 3 + 4 - 5 =  - 3

#include <iostream>

using namespace *std*;

int main(void)

{

long long int x;

*cin* >> x;

if (*abs*(x) % 2 == 0)

*cout* << x / 2 << *endl*;

else

*cout* << -(x + 1) / 2 << *endl*;

return 0;

}