

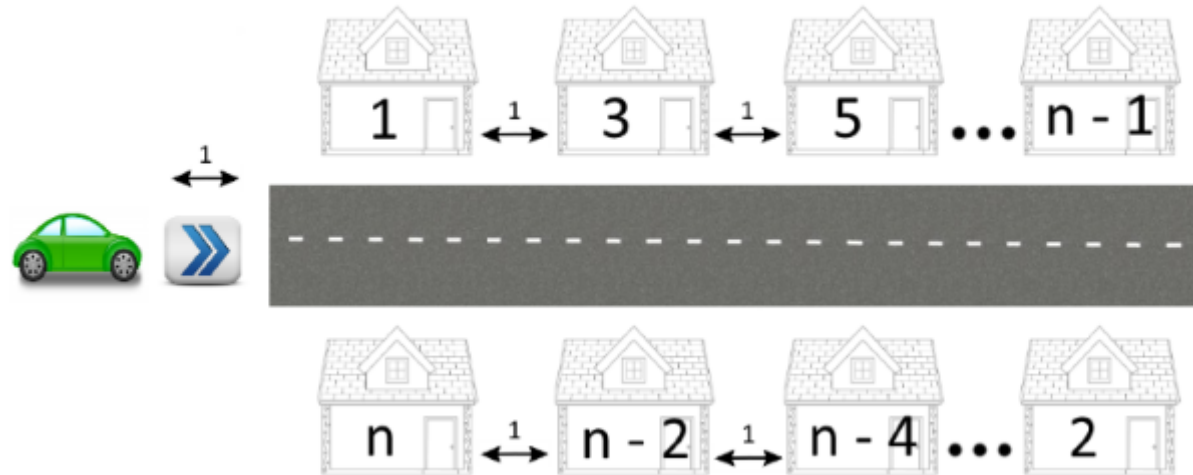


CHALLENGE INFORMATION

✔ You have already solved this challenge ! Though you can run the code with different logic !



Course	JAVA	Session	Methods	Question Information	Level 1 Challenge 60
Problem	<p>Question description</p> <p>The main street of Candyland is a straight line with n houses built along it (n is an even number). The houses are located at both sides of the street. The houses with odd numbers are at one side of the street and are numbered from 1 to $n-1$ in the order from the beginning of the street to the end (in the picture: from left to right). The houses with even numbers are at the other side of the street and are numbered from 2 to n in the order from the end of the street to its beginning (in the picture: from right to left). The corresponding houses with even and odd numbers are strictly opposite each other, that is, house 1 is opposite house n, house 3 is opposite house $n-2$, house 5 is opposite house $n-4$ and so on.</p>				



Brad needs to get to house number a as quickly as possible. He starts driving from the beginning of the street and drives his car to house a . To get from the beginning of the street to houses number 1 and n , he spends exactly 1 second. He also spends exactly one second to drive the distance between two neighbouring houses. Brad can park at any side of the road, so the distance between the beginning of the street at the houses that stand opposite one another should be considered the same.

Your task is: find the minimum time Brad needs to reach house a .

Constraints:

$$1 \leq a \leq n \leq 100\,000$$

Input Format:

The first line of the input contains two integers, n and a - the number of houses on the street and the number of the house that Brad needs to reach, correspondingly. It is guaranteed that number n is even.

Output Format:

Print a single integer — the minimum time Brad needs to get from the beginning of the street to house a .

Test Cases

✓ Logical Test Cases

Test Case 1

Test Case 2

INPUT (STDIN)
1628 274
EXPECTED OUTPUT
678

INPUT (STDIN)
1764 1288
EXPECTED OUTPUT
239

✓ Mandatory Test Cases

Test Case 1
KEYWORD
public static void housetnumbers(int x,int y)

Test Case 2
KEYWORD
int n,a;

Test Case 3
KEYWORD
n= sc.nextInt();

Test Case 4
KEYWORD
housetnumbers(n,a);

✓ Complexity Test Cases

Test Case 1
CYCLOMATIC COMPLEXITY
3

Test Case 2
TOKEN COUNT
140

Test Case 3
NLOC
21