

Drawing Book

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Problem

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Brie's Drawing teacher asks her class to open their n -page book to page number p . Brie can either start turning pages from the front of the book (i.e., page number **1**) or from the back of the book (i.e., page number n), and she always turns pages one-by-one (as opposed to skipping through multiple pages at once). When she opens the book, page **1** is always on the right side:



Each page in the book has two sides, front and back, except for the last page which may only have a front side depending on the total number of pages of the book (see the *Explanation* sections below for additional diagrams).

Given n and p , find and print the minimum number of pages Brie must turn in order to arrive at page p .

Input Format

The first line contains an integer, n , denoting the number of pages in the book.

The second line contains an integer, p , denoting the page that Brie's teacher wants her to turn to.

Constraints

- $1 \leq n \leq 10^5$
- $1 \leq p \leq n$

Output Format

Print an integer denoting the minimum number of pages Brie must turn to get to page p .

Sample Input 0

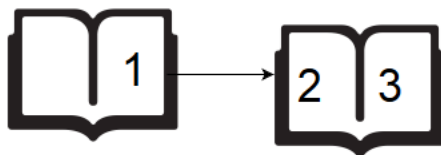
```
6
2
```

Sample Output 0

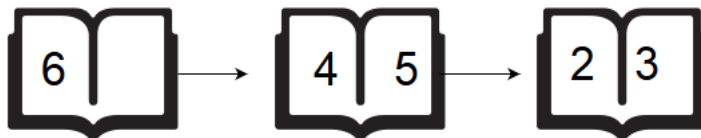
```
1
```

Explanation 0

If Brie starts turning from page **1**, she only needs to turn **1** page:



If Brie starts turning from page **6**, she needs to turn **2** pages:



Because we want to print the minimum number of page turns, we print **1** as our answer.

Sample Input 1

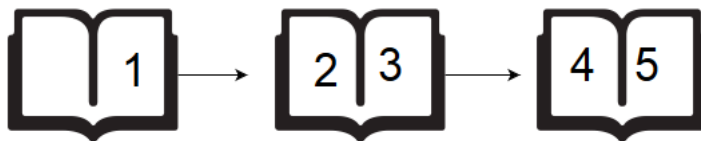
```
5
4
```

Sample Output 1

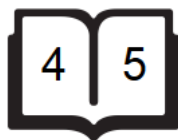
```
0
```

Explanation 1

If Brie starts turning from page **1**, she needs to turn **2** pages:



If Brie starts turning from page **5**, she doesn't need to turn any pages:



Because we want to print the minimum number of page turns, we print **0** as our answer.

[f](#) [t](#) [in](#)

Submissions: [26963](#)

Max Score: 10

Difficulty: Easy

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Java 7

```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
```

```
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     static int solve(int n, int p){
10         // Complete this function
11     }
12
13     public static void main(String[] args) {
14         Scanner in = new Scanner(System.in);
15         int n = in.nextInt();
16         int p = in.nextInt();
17         int result = solve(n, p);
18         System.out.println(result);
19     }
20 }
21
```

Line: 1 Col: 1

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