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## 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

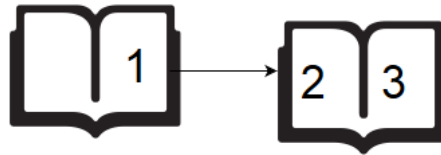
```
6
2
```

### 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

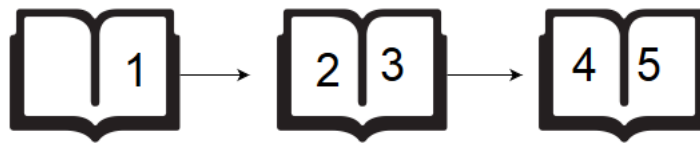
5  
4

#### 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: 5492

Max Score: 10

Difficulty: Easy

Rate This Challenge:

★★★★★

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Current Buffer (saved locally, editable)  

C#



```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
5 class Solution {
```

```
6
7 static int solve(int n, int p){
8     // Complete this function
9     return (Math.Min(p, n - p) / 2);
10 }
11
12 static void Main(String[] args) {
13     int n = Convert.ToInt32(Console.ReadLine());
14     int p = Convert.ToInt32(Console.ReadLine());
15     int result = solve(n, p);
16     Console.WriteLine(result);
17 }
18 }
19 }
```

Line: 10 Col: 6

 [Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)

## Congrats, you solved this challenge!

- |                 |                 |                 |
|-----------------|-----------------|-----------------|
| ✓ Test Case #0  | ✓ Test Case #1  | ✓ Test Case #2  |
| ✓ Test Case #3  | ✓ Test Case #4  | ✓ Test Case #5  |
| ✓ Test Case #6  | ✓ Test Case #7  | ✓ Test Case #8  |
| ✓ Test Case #9  | ✓ Test Case #10 | ✓ Test Case #11 |
| ✓ Test Case #12 | ✓ Test Case #13 | ✓ Test Case #14 |
| ✓ Test Case #15 | ✓ Test Case #16 | ✓ Test Case #17 |
| ✓ Test Case #18 | ✓ Test Case #19 | ✓ Test Case #20 |
| ✓ Test Case #21 | ✓ Test Case #22 | ✓ Test Case #23 |
| ✓ Test Case #24 | ✓ Test Case #25 |                 |

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