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Drawing Book

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Your submission will run against only preliminary test cases. Full test cases will run at the end of the day.

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

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

Output Format

Print an integer denoting the minimum number of pages Brie must turn to get to page p.
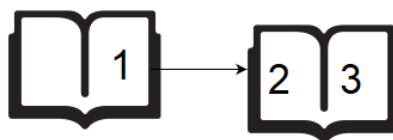
Sample Input 0

```
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:

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

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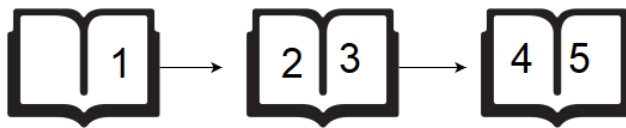
Sample Input 1

```
5
4
```
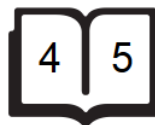
Sample Output 1

```
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   y   in

Contest ends in 6 days

Submissions: 2876
Max Score: 10
Difficulty: Easy

Rate This Challenge:
☆ ☆ ☆ ☆ ☆

More

Current Buffer (saved locally, editable)   C#

```csharp
 1  using System;
 2  using System.Collections.Generic;
 3  using System.IO;

 4  using System.Linq;
 5  class Solution {
 6
 7      static void Main(String[] args) {
 8          int n = Convert.ToInt32(Console.ReadLine());
 9          int p = Convert.ToInt32(Console.ReadLine());
10          // your code goes here
11
12          Console.WriteLine(Math.Min(p, n - p) / 2);
13      }
14  }
15
```

Line: 12 Col: 51

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code

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