

# Drawing Book

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

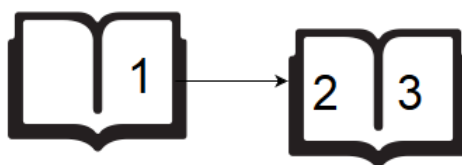
```
6
2
```

## 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

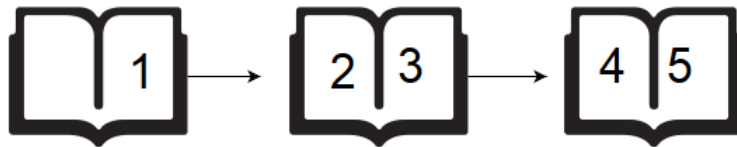
5  
4

#### 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.