

B. Simple Game

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

One day Misha and Andrew were playing a very simple game. First, each player chooses an integer in the range from 1 to n . Let's assume that Misha chose number m , and Andrew chose number a .

Then, by using a random generator they choose a random integer C in the range between 1 and n (any integer from 1 to n is chosen with the same probability), after which the winner is the player, whose number was closer to C . The boys agreed that if m and a are located on the same distance from C , Misha wins.

Andrew wants to win very much, so he asks you to help him. You know the number selected by Misha, and number n . You need to determine which value of a Andrew must choose, so that the probability of his victory is the highest possible.

More formally, you need to find such integer a ($1 \leq a \leq n$), that the probability that is maximal, where C is the equiprobably chosen integer from 1 to n (inclusive).

Input

The first line contains two integers n and m ($1 \leq m \leq n \leq 10^9$) — the range of numbers in the game, and the number selected by Misha respectively.

Output

Print a single number — such value a , that probability that Andrew wins is the highest. If there are multiple such values, print the minimum of them.

Examples

input
3 1
output
2
input
4 3
output
2

Note

In the first sample test: Andrew wins if C is equal to 2 or 3 . The probability that Andrew wins is $2/3$. If Andrew chooses $a = 3$, the probability of winning will be $1/3$. If $a = 1$, the probability of winning is 0 .

In the second sample test: Andrew wins if C is equal to 1 and 2 . The probability that Andrew wins is $1/2$. For other choices of a the probability of winning is less.

Codeforces Round #316 (Div. 2)

Finished

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