



# Fahim Hates Juice

Fahim doesn't like juice, but his sister Ira likes it so much, especially mixed-fruit juice. So Fahim will make a few glasses of it for her.

A mango and an orange are need to make a glass of mixed-fruit juice. Fahim has  $M$  mangoes and  $O$  oranges. What is the maximum number of glasses of mixed-fruit juice he can make?

## Input

- line 1:  $M O$

## Output

- line 1: Maximum number of glasses of mixed-fruit juice Fahim can make

## Constraints

- $1 \leq M, O \leq 10^9$

## Subtasks

Subtask	Score	Additional constraints
1	10	$M = 1$
2	15	$M \leq 3$ and $O = 2$
3	30	$M, O \leq 200000$
4	45	No additional constraints

## Examples

### Example 1

3 5

The correct output is:

3

## Example 2

4 4

The correct output is:

4