# This Time I Will Be Lucky

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|---|---|
| Input file: | *standard input* |
| Output file: | *standard output* |
| Time limit: | 5 seconds |
| Memory limit: | 1024 mebibytes |

In a casino, there is a bag with $a$ white balls and $b$ black balls. Until the bag is empty, we can pick one ball randomly from the bag, and if it is white, we gain 1 dollar; otherwise, we lose 1 dollar. After that, we trash this ball. We can stop at any time, including the time before picking any balls. What maximum expected profit can we get?

## Input

The input contains two space-separated integers, $a$ and $b$ ($0 \leq a, b \leq 100\,000$).

## Output

Print one real number: the maximum expected profit. The answer will be considered correct if the absolute or relative error is at most $10^{-6}$.

## Examples

| *standard input* | *standard output* |
|---|---|
| 0 0 | 0 |
| 3 4 | 0.342857142857142857 |
| 2 2 | 0.666666666666666666 |
| 3 0 | 3 |

## Note

Don't forget `setprecision` if you use `C++`.