

**Begin:** 2022-06-30 22:00 BST

# UAP Beginner Practice Contest 1

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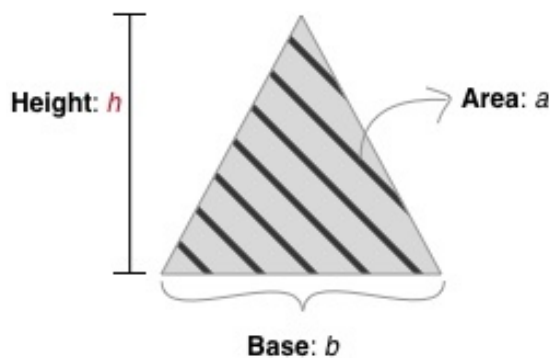
OS

Linux

## C - Minimum Height Triangle

Daenerys Targaryen is Daenerys Stormborn of the House Targaryen, First of Her Name, the Unburnt, Queen of the Andals and the First Men, Khaleesi of the Great Grass Sea, Breaker of Chains, and Mother of Dragons. Now she is staying in Meereen. She wants to build a great triangle shaped monument. But she doesn't have any Civil Engineers to measure the optimized calculations for building her desire triangular monument. Can you help her? Given integers **b** and **a**, find the smallest integer **h**, such that there exists a triangle of height **h**, base **b**, having an area of at least **a**.





### Input Format

There are two space-separated integers  $b$  and  $a$ , as stated above.

### Constraints

$$1 \leq b \leq 1000000$$

$$1 \leq a \leq 1000000$$

### Output Format

In a single line, print a single integer, the answer of the problem.

### Sample Input 0

2 2

### Sample Output 0

2

### Sample Input 1

17 100

### Sample Output 1

12



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