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Problem Link: contest, practice

1 Difficulty: Cakewalk

Pre-requisites: Geometry, Implementation

Problem:

We are given two numbers A and B. Our task is to determine the minimal and the maximal possible value of number C thus exists a non-obtuse triangle with the lengths of the sides equal to A, B and C.

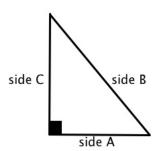
It's also guaranteed, that A < B.

Explanation:

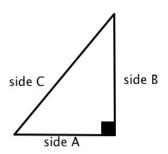
It was the easiest problem of the contest.

Since A < B, the only angles, that could be obtuse, are the angles between sides A and B or A and C.

So, the minimal possible value of C is reached when the angle between sides A and C is right(equals to 90 degrees).



Also, the maximal possible value of C is reached when the angle between sides A and B is right(equals to 90 degrees).



The first value $C_{min} = sqrt(B^2 - A^2)$;

The second value $C_{max} = sqrt(B^2 + A^2)$.

The total complexity is O(1) per testcase.

Setter's Solution: link Tester's Solution: link

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This question is marked "community wiki".



asked 21 Apr '14, 00:05 kostya_by ** [166]•14•32•35 accept rate: 0%

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2 Answers: