eLab

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CHALLENGE INFORMATION

✓ You have already solved this challenge ! Though you can run the code with different logic ! ✕

Course	JAVA	Session	Input & Output	Question Information		Level 2	Challenge 9
Problem							

Problem Description:

Sajid loves super heroes he used to imagine himself to be a hero.

One day his teacher was taking a class about shapes and asked the students to find the Area of the triangle using Heron's formula.

Sajid misheard this as Hero's formula and was curious to discover the Hero's formula for finding the area of the triangle.

Help Sajid to solve his math problem by using the correct logic in your code.

Functional Description:

Area = sqrt(s(s − a)(s − b)(s − c)), where

s = (a + b + c) / 2

and

a, b & c are the sides of triangle.

Constraints:

$1 \leq a \leq 15$

$1 \leq b \leq 15$

$1 \leq c \leq 15$

Input Format:

Only Line of input has 3 integers representing 3 side of the triangle separated by a space.

Output Format:

Print the area of the triangle with only two values after the decimal point

Test Cases

∨ Logical Test Cases

Test Case 1	Test Case 2
INPUT (STDIN)	INPUT (STDIN)
5 5 4	6 5 4
EXPECTED OUTPUT	EXPECTED OUTPUT
9.17	6.48

∨ Mandatory Test Cases

Test Case 1	Test Case 2	Test Case 3
KEYWORD	KEYWORD	KEYWORD
int a=input.nextInt();	int b=input.nextInt();	int c=input.nextInt();

Test Case 4

KEYWORD

System.out.println

∨ Complexity Test Cases

Test Case 1	Test Case 2	Test Case 3
CYCLOMATIC COMPLEXITY	TOKEN COUNT	NLOC
1	132	14

Code
Editor

✓ You have already solved this challenge ! Though you can run the code with different logic !   ✕

Code Editor   JAVA SE 1.8   Light Theme

```
1   import java.io.*;
2   import java.util.*;
3   public class Class332241010280 {
4       public static void main(String[] args) {
5           Scanner input = new Scanner(System.in);
6           int a=input.nextInt();
7           int b=input.nextInt();
8           int c=input.nextInt();
9           int s=(a+b+c)/2;
10          double Area = Math.sqrt(s*(s-a)*(s-b)*(s-c));
11          System.out.println(String.format("%.2f",Area));
12      }
13  }
```

Custom Input (stdin)   T1   T2

Type Here

Output   MATCH T1   MATCH T2

Empty

Complexity Analysis