Shawn Stapel

Exercise 3-19 Planning

Write the algorithm for the problem below. You are not writing actual code, but rather pseudocode to help your planning. Ask yourself the following questions:

* How many variables will you need? **3**
* What are the data types of those variables? **double**
* How many variables are you displaying? **1**
* What are the data types of those variables? **double**
* What math must you perform? **addition**
* Is there anything you need to check before you do this math? **That the addition of any 2 sides is greater than the 3rd.**

Enter value for side 1

Enter value for side 2

Enter value for side 3

if

side 1+ side 2 is less than side 3

Output “the input is invalid”

if

side 2+ side 3 is less than side 1

Output “the input is invalid”

If

side 1+ side 3 is less than side 2

Output “the input is invalid”

Else

Add side 1 + side 2 + side 3 = perimeter

Output “the perimeter is” (calculation of perimeter)

The program reads three edges for a triangle and computes the perimeter if the input is valid. Otherwise, display that the input is invalid. The input is valid if the sum of every pair of two edges is greater than the remaining edge.