

FORTRAN Program 1

Due Thursday September 5, 2013

The Herons Program

This is a group program.

- Include the program name, program number, group members names, and group number at the top of the program.
- Name the program GxP1.FOR where x is the group number.
- Write a FORTRAN program that will prompt the user for three sides of a triangle. The program will read the three sides of a triangle as real numbers.
- The program will then determine if the three sides will form a triangle. $a + b > c$, $a + c > b$, and $b + c > a$.
- If the three sides will not form a triangle, print the three sides and a message that no triangle formed.
- If the three sides will form a triangle, print the three sides, calculate and print the perimeter, and calculate and print the area of the triangle $\text{area} = \text{square root} (p/2 * (p/2 - a) * (p/2 - b) * (p/2 - c))$
- The program that will prompt the user if they wish to process another three sides. The program will read the response (Y) or (N) and process again or quit.
- Do not use any GOTO's.
- Comment your program.
- Turn the program in, as an ASCII file. Include your name, group, class, and program name on the device or e-mail subject.