

MAT 101 — Introduction to Computer Programming (C++)

Handout #11, February 24, 2005

Today's tasks:

1. Classwork (handed in - must work in pairs) page 168 pr 2
2. Homework due TUESDAY March 1,2005, p168 pr1
3. Next Tuesday, Review
4. Exam on Thursday, March 3rd.
5. Homework due today

6. Follow these steps to help you with the classwork. Call your classwork file *cw4.cpp* and your executable *cw4*
- (a) Write a call by reference function to get the three inputs
`void getinput(int &a, int &b, int &c);`
 - (b) Write code to call the function and output the three inputs inside main.
 - (c) Compile and execute to check that you receive the input correctly.
 - (d) After you are sure these inputs work, remove the output statement
 - (e) Write the prototype for the five parameter function. It should look something like
`void triangle(float a, float b, float c, float &area, float &perimeter);`
 - (f) Define the function and calculate only 's'
 - (g) Output 's' inside the function.
 - (h) Write code to call the function from main.
 - (i) Compile and execute to check the value of s.
 - (j) After you are sure the s calculation works, remove the output statement
 - (k) Compute and output the perimeter (a+b+c) inside the function.
 - (l) Compile and execute to check the value of the perimeter.
 - (m) After you are sure the perimeter is correct, remove the output statement
 - (n) Compute the area and output its value inside the function
 - (o) Compile and execute to check the value of the perimeter.
 - (p) After you are sure the area is correct, remove the output statement
 - (q) Now be sure that the area and perimeter are the values of the call by reference parameters to this function.
 - (r) Ensure that the computed values are appropriately assigned to the reference variables.
 - (s) Now output the values of area and perimeter inside main.
 - (t) Compile and execute to ensure correctness.