Introduction to Computers and Programming
Week 1 homework

February 22, 2001

Please finish this by Tuesday Feb 27 and bring it to class.

Always write the pseudocode first for each program. You will be required to write the pseudocode for the midterm

Problem 1 Write the following program

- Read a number from the user, say count
- Read count more numbers from the user and find their sum
- Print the sum.

Problem 2 Modify the previous program to compute the sum of the integers from 0 to count. You will have to replace one of the scanf() calls with something else.

Problem 3 Modify the previous program to compute the product of the integers from 1 to count. Look carefully at the initialization conditions.

Problem 4 Write a program to read a number from the user and print all the even positive numbers less than or equal the user’s value. Do it in two different ways.

- Directly generate only even numbers
- Look at all the number less than or equal the user’s number and print only the even ones.
Problem 5  Write a function that takes a character and a count and prints the character count times, and then a newline. Use this function in a program.

Problem 6  Modify the previous program to read a character and a number (say side_length) from the user and draw a square of size side_length filled with the character you read in. You will find this useful for your assignment.

Problem 7  Modify program 5 to read a character and a number (say side_length) from the user and draw a triangle of size side_length filled with the character you read in. The first line will have 1 character, the second will have 2 and the last will have side_length characters.

Problem 8  Go over the self review exercises in Chapters 2 and 3 of the textbook. Ignore the parts that we have not done in class.