CS 60 FOURTH QUIZ May 4, 2010

WRITE ALL YOUR ANSWERS ON SPACE PROVIDED. ANSWER ALL FOUR QUESTIONS. TOTAL POINTS ARE 30. YOU MAY ASSUME THAT EACH SECTION OF CODE BELOW IS IN ITS OWN FILE WHEN COMPILED

NAME:	

1 { Circle for each part True or False depending whether or not the statement is true or false. Each question is worth 1.5 Point}

- { True or False } The declaration int *** t indicates that t is a pointer to a pointer to a pointer to an int.
- { True or False } When a program terminates normally we know it did not have any memory leaks.
- { **True** or False } A static local variable in a function can be used to count the number of times the function is invoked.
- { True or False } In C++ it is valid to have the functions int sqrt(int x); and float sqrt(float x); defined one after the other.
- { True or False } It is possible to pass parameters by reference in C++ and in C.
- { True or False } The expression ! (a && b) is the same as (!(a)) || (!(b)), where a and b are Boolean variables.
- { True or False } In class we discuss the C function xalloc() to allocate memory dynamically in the area of memory called the Stack.
- { True or False } In C++ an inline function means that the function must be defined in one line.
- { True or False } In C we use new to allocate space from the area of memory called the Heap.
- { True or False } C++ has Boolean variables.
- { True or False } In a C function (called YYY) it is possible to jump and execute the function named func even if throughout the code of function YYY we do not have anywhere the the invocation func().

- { True or False } The two lines of code int * xxx; *xxx = 20.5; (one after the other) can cause a segmentation fault.
- { True or False } In a makefile, the lines with the commands for each target must start seven spaces from the beginning of the line.
- { True or False } In a makefile, if all the dependencies are older than all the targets, none of the commands in the makefile are executed.
- { True or False } In C we use free to delete (deallocate) memory acquired through calloc or malloc.
- { True or False } When x is declared as an integer, then the value of x equal to 1 after executing the statement x = (5*5 == 25);
- { True or False } The local (auto) variables in C are located in an area of memory which in C is called the Heap.
- { True or False } The predecessor of the C language was the C++ language.
- { True or False } The line int *fx(int); means that fx is a function that takes one int argument and returns an int.
- { True or False } It is possible to invoke function main from (within) the main function in a C program.