Quiz 3

# Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. (20pts) What will the following program segments display?
2. int v = 6;

do

{

cout << v;

v++;

}

while(v < 5);

1. int v = 6;

while(v < 5)

{

cout << v;

v++;

}

1. int number = 1;

while(number <= 5)

{

cout << “O hai!” << endl;

}

1. int num;

int sub = 3;  
do

{

num = 5;

num -= sub;

cout << num;

}

while(num > 1);

1. (20pts) Write a segment of C++ code that asks for the variable **number** to be input in the range of **-5** through **25**. Use the **while** loop to validate the input entered, requiring the user to re-enter the value as long as an invalid value is entered. Assume that all variables have been declared.
2. (20pts) Write a **do-while** loop that asks the user enter a value for the variable **num**, multiplies **num** by **5**, and stores the result in the variable **product**. The loop should iterate as long as **product** contains a value less than **100**. Assume that all variables have been declared.
3. (20pts) Write the standard output of the following code segments:
4. for(int num = 1; num <= 5; num++)

cout << num << “\t\t” << (num \* num) << endl;

1. int k = 10;

for(int i = -2; i < 3; i += 2)

{

cout << i + k << endl;

k = 1;

}

1. int count = 45;

for(int count = 0; count < 5; count++)

cout << “count is ” << count << endl;

cout << “count is ” << count << endl;

1. for(int count = 0; count < 1; count++)

cout << “I love free points!”;

1. (20pts) Answer the following questions:
2. Write C++ code to declare the array **cats**. This array will hold 100 doubles.
3. What is the subscript of the first element in the array **cats** you declared?
4. What is the subscript of the last element in the array **cats** you declared?
5. Write C++ code to read 100 values into the array **cats**. The input values are in an input file that has already been opened with the file variable **fin.**
6. Write a for loop that prints each element of the array **cats** to the screen.