CPSC 121 Assignment #3

1.1

// This program uses a loop to raise a number to a power.

#include <iostream>

using namespace std;

int main() {

int num, bigNum, power, count;

cout << ”Enter an integer: ”;

cin >> num;

cout << ”What power do you want it raised to? ”;

cin >> power;

bigNum = num;

while (count++ < power);

bigNum \*= num;

cout << ”The result is << bigNum << endl;

return 0;

}

while (count++ < power) //The ; would make it an infinite while loop

cout << ”The result is” << bigNum << endl; //The output string didn’t have a second “ at //the end

1.2

// Find the error in this program.

#include <iostream>

using namespace std;

int main()

{

int num1 = 0, num2 = 10, result;

num1++;

result = ++(num1 + num2);

cout << num1 << ” ” << num2 << ” ” << result;

return 0;

} result = (num1 + num2);

++result //In order to do incrementation the number needs to be stored somewhere already

1.3

// This program averages a set of numbers.

#include <iostream>

using namespace std;

int main()

{

int numCount, total;

double average;

cout << ”How many numbers do you want to average? ”;

cin >> numCount;

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

{

int num;

cout << ”Enter a number: ”;

cin >> num;

total += num;

count++;

}

average = total / numCount;

cout << ”The average is << average << endl;

return 0;

} cout << ”The average is “ << average << endl; // The output string didn’t have a second “ at the //end

2.1

Int x = 1;

do

{

cout << “enter a number: “;

cin >> x;

} while (x > 0);

2.2

char sure;

while (sure != ‘Y’ && sure != ‘N’)

{

cout << ”Are you sure you want to quit? ”;

cin >> sure;

}

2.3

int x = 50

while (x > 0)

{

cout << x << ” seconds to go.\n”;

x--;

}