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CIS 121

Assignment 8

Programming with Words

1) Write an infinite loop using a for loop.

for(;;)

cout<<"x"<<endl;

2) Write a loop that counts **only** the odd numbers out of the first five numbers entered from the keyboard, but does not count (skips) the number 7. Use the keyword *continue* to skip 7 inside the loop

#include <iostream>

using namespace std;

int main(){

int entry = 5;

int count=0;

int x;

int number;

for (x=0;x<entry;x++){

cout << "Please enter a number: ";

cin >> number;

if (number==7) continue;

if (number%2 != 0) count++;

}

cout << "Number of odd numbers: " << count << endl;

return 0;}

3) Write the same program above, but exit the loop using *break* if the number 7 is entered.

#include <iostream>

using namespace std;

int main(){

int entry = 5;

int count=0;

int x;

int number;

for (x=0;x<entry;x++){

cout << "Please enter a number: ";

cin >> number;

if (number==7) break;

if (number%2 != 0) count++;

}

cout << "Number of odd numbers: " << count << endl;

return 0;}

C++ Program

Write a program that prints all the even numbers **between** any two numbers. There should be a function called *print\_even* that takes the initial and ending number as parameters, and prints all the intervening even numbers. Use a for loop to implement this.

Your main function should accept from the keyboard the initial and ending numbers, and then it should call print\_even to get the even numbers printed.

#include <iostream>

using namespace std;

int print\_even(int x, int y);

int main(){

int first, second;

cout<<"Enter two numbers to print the even integers between them"<<endl;

cin>>first>>second;

cout<<print\_even(first, second)<<endl;

return 0;}

int print\_even(int x, int y){

int count=0;

int z;

int max; //This way the numbers can be entered in any order

int min;

if (x>y) //This part determines which values to assign max and min

{

max=x;

min=y;

}

else {

max=y;

min=x;

}

for (z=min+1;z<max;z++){ // making z = to the min +1 makes sure that the starting number is not included, and less than the max number so it also is not included

{

if (z%2!=0) //this if statements makes the loop skip all the odd numbers and only print the evens

{continue;}

cout<<z<<", " ;

}

}

return count;

}