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1. Is there any error in this program? what is it ?

**show the output** for the following program.

#include <iostream>

Using namespace std;

 void main()

{

      int x = 3, y = 8;

**for**( ; y >= x ; )

            y = subtract (x, y);

      cout<<"y ="<< y;

}

 int subtract (int a, int b)

{

      return (b - a);

}

1. Complete the following code

Write the function prototype and declaration for a function even which **return** wither the passed number **even** or **odd**

#include <iostream>

using namespace std;

void main()

{

int num;

cout<<" please enter a number ";

cin >>num;

cout<<"the number is "<<endl;

}

1. Trace the following show the output

|  |  |
| --- | --- |
| // for loop to print out index  #include <iostream>  using namespace std;  void dbl(int& a, int& b)  { a\*= 2;  b\*= 2; }  void trip(int a, int b)  { a\*=3;  b\*=3; }  void main(){  int x = 4, y = 6; | cout << "AT START:" << endl;  cout << "x= " << x << " y= " << y << endl;  //call the dbl function:  dbl(x,y);  cout << "AFTER DBL CALL:" << endl;  cout << "x= " << x << " y= " << y << endl;  //call the trip function:  trip(x,y);  cout << "AFTER TRIP CALL:" << endl;  cout << "x= " << x << " y= " << y << endl;  } |

1. **Convert the following program**

**from call by reference to call by value**

#include <iostream>

Using namespace std ;

Void duplicate (int& a, int& b, int & c);

Void main ()

{

Int x=1,y=3,z=7;

Duplicate (x,y,z);

Cout << “x=“<<x<<“, y=“<<y<<“,z=“<<z;

}

Void duplicate (int& a, int& b, int & c)

{ a\*=2;

b\*=2;

c\*=2;

}

1. Write a program containing the following functions :
2. a function called **binary**  that is passed int arguments and then sets the number to 2 if it is even .
3. an overloaded function **print** to print 3 type of parameter one for int and one for double and the other for character
4. function discount that calculate the discount .

if you pass 0 it **returns** the discount percentage .(20%)

if you pass the money it will calculate the price after discount (20%)

if you pass the money and the discount percentage it will calculate the price after discount