Compare the two object that contains integer values that demonstrate the overloading of equality (==), less than (<), greater than (>), not equal (!=), greater than or equal to (>=) and less than or equal to (<=) operators.

```
#include <iostream>
#define SUCCESS 0
using namespace std;
class Integer
private:
int no;
public:
 Integer(int a):no(a){};
 bool operator==(Integer a)
 {
  if(a.no == no)
   return true;
  else
   return false;
 bool operator<(Integer a)
 if(no < a.no)
   return true;
  else
   return false;
bool operator>(Integer a)
 if(no > a.no)
   return true;
  else
   return false;
bool operator<=(Integer a)</pre>
 if(no <= a.no)
   return true;
  else
   return false;
```

```
}
bool operator>=(Integer a)
 {
 if(no >= a.no)
   return true;
  else
   return false;
}
};
int main()
{
 int temp;
 cout << "Enter integer for object a";</pre>
 cin >> temp;
 Integer a(temp);
 cout << "Enter integer for object b";</pre>
 cin >> temp;
 Integer b(temp);
 if (a == b)
  cout << "object a and b are equal"<< endl;</pre>
 if (a < b)
  cout << "object a is less than b"<< endl;</pre>
 if (a > b)
  cout << "object a is greater than b"<< endl;</pre>
 if (a <= b)
  cout << "object a is less than or equal to b"<< endl;
 if (a >= b)
  cout << "object a is gerater than or equal to b"<< endl;</pre>
 return SUCCESS;
}
#include<iostream>//or
using namespace std;
class op
{
  int num;
public:
  op(int i)
  {
    num=i;
```

```
void operator == (op o2)
  cout<<"For "<<num<<" == "<<o2.num<<endl;
  if(num==o2.num)
    cout<<"True"<<endl;
  else
    cout<<"False"<<endl;
void operator < (op o2)</pre>
  cout<<"For "<<num<<" < "<<o2.num<<endl;
  if(num<o2.num)
    cout<<"True"<<endl;
  else
    cout<<"False"<<endl;
void operator > (op o2)
  cout<<"For "<<num<<" > "<<o2.num<<endl;
  if(num>o2.num)
    cout<<"True"<<endl;
  else
    cout<<"False"<<endl;
void operator != (op o2)
  cout<<"For "<<num<<" != "<<o2.num<<endl;
```

```
if(num!=o2.num)
      cout<<"True"<<endl;
    else
      cout<<"False"<<endl;
  void operator >= (op o2)
  {
    cout<<"For "<<num<<" >= "<<o2.num<<endl;
    if(num>=o2.num)
      cout<<"True"<<endl;
    else
      cout<<"False"<<endl;
  void operator <= (op o2)</pre>
    cout<<"For "<<num<<" <= "<<o2.num<<endl;
    if(num<=o2.num)</pre>
      cout<<"True"<<endl;
    else
      cout<<"False"<<endl;
  }
};
int main()
  op o1(1),o2(2);
  o1==o2;
  o1>o2;
  o1<o2;
```

```
o1!=o2;
o1>=o2;
o1<=o2;
}
```