Implement an ADT using an array data structure

Develop the following stack class. The class should use your IntArrayList class and should implement the appropriate ADT interface.

Class MyStack implements StackADT
IntArrayList   list

boolean isFull() //returns full if no more space
void display ( ) //Console UI for testing
default constructor that sets maximum size of list to 20

Remember, you will also need to implement the methods defined in the interface.

Test MyStack with the following driver

```
static void stackdriver()
{
      MyStack astack = new MyStack();
      System.out.println("testing Stack ");
      System.out.println("testing is empty " + astack.isEmpty() );
      for (int i = 1 ; i<6 ; i++)
        astack.push( i );

      System.out.println ( "num values in stack: " + astack.size() );
      astack.display();
      System.out.println("popping value" + astack.pop());
      System.out.println("value 5 should have been removed");
      astack.display( );
}
```

Expected output

```
testing Stack
testing is empty true
num values in stack: 5
list has 5 items
value: 5
value: 4
value: 3
value: 2
value: 1
popping value 5
value 5 should have been removed
list has 4 items
value: 4
value: 3
value: 2
value: 1
```