Total 65 pts.

The class has:

0] (20 points) Declare a class MyArray whose only member is a pointer to an int, named plnt.

- a constructor with 3 arguments, which:
 - o allocates memory dynamically for an array of 3 integers (use new)
 - o stores the 3 arguments in the array
 - o makes pint point to the array.
- a <u>default constructor</u>, which does the same, but stores 0, 0, 0 in the array.
- a <u>destructor</u>, which:
 - prints the message "Destructing x, y, z!", where x, y, and z are the values stored in the dynamic array
 - deallocates the memory (use delete [])

Test in the main function by creating two objects of this class, one using the non-default constructor, and one using the default constructor.

1] (20 points) Use the class **SuperVar** from ch.7 of our text, but change it so that the union has the following members: **short int**, **int**, **float**, **double**. Modify the class declarations and definitions accordingly.

In the main function create an object of class SuperVar named w.

w is initialized with the integer 42. < Important: From this point on, you cannot write 42 as part of your code – instead, you have to make use of w!>

Create three more objects **x**, **y**, **z**, which store 42 in the form of a short int, float, and double, respectively (hint: use type casting)

Print all 4 objects.

2] (5 points) Answer this question with pencil-on-paper: Does SuperVar need a destructor?			
Explain either	way:		
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