

- Define a class named “Box”.
 - **Attributes:**
 - length (l)
 - width (w)
 - height (h)
 - **Member functions:**
 - Constructors(2)
 - Without any parameters:
 - Initializes the attributes to zero
 - With 3 parameters that initializes the 3 attributes
 - Destructor
 - Just print “In destructor”
 - A single setter to set all the dimensions
 - Get the volume of the box
 - Get the surface area of the box
 - A comparator function that compares two boxes:
 - The box with greater volume is larger
 - If the volume is equal, the box with greater surface area is larger
- You should return -1, 0, or 1 respectively if the calling box is smaller, equal, or larger than the box sent as parameter

Now write a main function to test and show that all functionalities are working.

Marks Distribution:

Define and Design the box - 2

Constructors - 2

Destructor – 1

Setter – 2

Calculate Volume – 2.5

Calculate Surface Area – 2.5

Comparator – 3

Main - 5