

**Question 1 [10 Points]**Design the **Player** class such that the following outputs are produced.

Driver Code	Output
<pre> public class playerTest {     public static void main(String[] args) {         Player p1 = new Player();         p1.updateInfo("Messi", 37);         System.out.println("-----1-----");         p1.addAward("World Cup", 1);         System.out.println("-----2-----");         p1.display();         System.out.println("-----3-----");         Player p2 = new Player();         p2.updateInfo("Ronaldo", 37);         System.out.println("-----4-----");         String[] arr1 = {"Euro", "BDR", "UCL"};         int[] arr2 = {1, 5, 5};         for (int i = 0; i &lt; arr1.length; i++) {             p2.addAward(arr1[i], arr2[i]);         }         System.out.println("-----5-----");         p2.addAward("PL", 3, "World Cup", 1);         System.out.println("-----6-----");         p2.display();         System.out.println("-----7-----");         System.out.println(p2.clearAwards());         p2.display();     } } </pre>	<pre> -----1----- World Cup added to award list. -----2----- Name: Messi, Age: 37 Award list: World Cup: 1 -----3----- -----4----- Euro added to award list. BDR added to award list. UCL added to award list. -----5----- PL added to award list. Cannot add more awards -----6----- Name: Ronaldo, Age: 37 Award list: Euro: 1 BDR: 5 UCL: 5 PL: 3 -----7----- All awards of Ronaldo have been cleared. Name: Ronaldo, Age: 37 </pre>

## Question 2 [5 Points]

1	public class TraceA {
2	public int x = 0, y = 8, sum = 0;
3	public void methodA(int y, int z) {
4	this.x += ++x;
5	sum = x + methodB(this.x, y+2, z) + this.x;
6	System.out.println(x + " " + y + " " + sum);
7	}
8	public int methodB(int a, int b, int x) {
9	if (a % b == x) {
10	return this.y--;
11	}
12	this.x = x++ + this.x;
13	y += this.x;
14	System.out.println(a + " " + this.x + " " + y);
15	return y++;
16	}
17	}

Illustrate the output of the following statements written in the main method of a tester class. [Answers without workings on the script will be rejected]:

TraceA t1 = new TraceA();  
t1.methodA(4, 7);

output:

1		