

FIRSTNAME, LASTNAME (PRINT IN UPPERCASE):

STUDENT ID (e.g. 123456789):

**INSTRUCTIONS:**

Draw a memory map for the following program up to the point in the program execution indicated by the comment **/\*HERE\*/**. Indicate where each frame starts and ends in the stack. Remember not to draw the frame for methods that would have finished by the time we reach the stopping point (**/\* HERE \*/**).

```
public class Project {
    public static int Project_Count = 0;
    private String name;
    private int points;
    private StringBuffer concepts;

    public Project(String name, int points, StringBuffer concepts) {
        this.name = name;
        this.points = points;
        this.concepts = concepts;
    }

    public void setPoints(int points) {
        if (points > 0 && points <= 100) {
            this.points = points;
        }
        /* HERE */
    }

    @Override
    public String toString() {
        return " name=" + name + ", points=" + points + ", concepts=" + concepts;
    }
}

public class Driver {

    public static void someCode (Project p) {
        StringBuffer s = new StringBuffer ("loops");
        Project p1 = new Project ("P1", 100, s);
        ++Project.Project_Count;
        s.append(" and methods");
        p.setPoints(95);
        System.out.println(p);
        System.out.println(p1);
    }

    public static void main(String[] args) {
        int num = 90;
        Project p1 = new Project ("Proj1", num, new StringBuffer ("if and else"));
        Project.Project_Count++;
        someCode (p1);
        System.out.println(p1.toString());
    }
}
```

