

Question 2

```
public class StepTracker
{
    private int minSteps, totalSteps; 1
    private int totalDays, actDays;

    public StepTracker(int goal)
    {
        minSteps = goal;
        totalSteps = 0; 2
        totalDays = 0;
        actDays = 0;
    }

    public void addDailySteps(int steps)
    {
        totalSteps += steps;
        totalDays++;
        if (steps >= minSteps)
            actDays++;
    }

    public int activeDays()
    {
        return actDays;
    }

    public double averageSteps()
    {
        if (totalDays == 0) 3
            return 0.0;
        else
            return (double)totalSteps / totalDays; 4
    }
}
```

Notes:

1. Don't be tempted to introduce an array or an `ArrayList` in this question; just keep track of the numbers. Arrays and/or `ArrayList` will be tested in Question 3.
2. This and the next two statements are optional, because instance variables are automatically initialized to default values: 0 for ints, 0.0 for doubles, false for booleans, null for objects. It is helpful to remember that elements of an array created using the `new` operator are also automatically initialized to default values. But you must explicitly initialize local variables before they are used — they do not get default values.
3. A special case: avoid division by 0.
4. Need a cast to `double` before division. Alternatively, declare `totalSteps` a `double`.