

1) Below is a skeleton of a RunningLog class. Here are the components you should add by hand:

- represent the total days, minutes, and miles that a Runner has run
 - Example: last month I ran on 22 days for 728 minutes and covered 141 miles.
- create an appropriate constructor for creating a blank RunningLog
- create an appropriate constructor for creating a RunningLog with a given number of days, minutes, and miles
- finish the four instance methods

```
public class RunningLog  
{
```

```
private int days;  
private int minutes;  
private int miles;  
  
public RunningLog() {  
    days = 0;  
    minutes = 0;  
    miles = 0;  
}  
  
public RunningLog(int d, int min, int mi) {  
    days = d;  
    minutes = min;  
    miles = mi;  
}
```

```
//increase the minutes and miles ran based on the inputs
```

```
//increases the days ran by 1
```

```
public void updateLog(int min, int mi) {
```

```
    minutes += min;  
    miles += mi;  
    days++;
```

```
}
```

```
//gets the total number of miles run
```

```
public int getMiles() {
```

```
    return miles;
```

```
}
```

```
//calculates the average number of miles run in a day
```

```
public double getDailyMileage() {
```

```
    return (double)miles / days;
```

```
}
```

```
//prints the average pace of the runner (minutes and seconds in a mile)
```

```
//Example: 50 minutes over 6 miles would be 8:20 pace
```

```
public void printPace() {
```

```
int totalSeconds = minutes * 60;
int totalSecPerMile = totalSeconds / miles;

int minPerMile = totalSecPerMile / 60;
int secPerMile = totalSecPerMile % 60;

System.out.println(minPerMile + ":" + secPerMile);
```

This could be made better with an if-case. Right now, if the pace ends up being 8 minutes and 3 seconds, the print out will be 8:3.

```
}
```

```
}
```

3) In this Driver, perform the following tasks:

- Create a blank RunningLog object
- Go for a 6 miles run that takes 50 minutes
- Go for an 8 mile run that takes 65 minutes
- Ask the RunningLog for the daily mileage and store that value in a variable
- Tell the RunningLog to print the pace

```
public class Driver
```

```
{
```

```
public static void main(String[] args)
```

```
{
```

```
RunningLog myLog = new RunningLog();

myLog.updateLog(50, 6);
myLog.updateLog(65, 8);

double milePerDay = myLog.getDailyMileage();

myLog.printPace();
```

```
}
```

```
}
```