

## AP Computer Science Homework 09

*Due date:* Thursday, December 03, 2015

*Instructor:* Mr. Alwin Tareen

### Part A: Calculating the Sum of all the Even Numbers of an Array

- Your task is to create a program that calculates the sum of all the even elements of an array. You can assume that all of the numbers in the array are zero or positive.
- You will have to loop through the entire array, and decide whether or not a particular number is even. *Hint:* You will need to use the modulo operator: %.
- You must write a `calculateSum` method for the `SumEvens` class. This method accepts an array parameter of type `int`, and it returns a single number of type `int`.
- An array has been provided for you for testing purposes:

```
int[] numbers = {3, 2, 5, 7, 9, 12, 97, 24, 54};
```

After running your program, the output should look like the following:

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- You are provided with the files `SumEvens.java` and `SumEvensJUnitTest.java` to develop this program.
- Write your code in the area indicated by `//YOUR CODE HERE`.
- On your BlueJ project window, you should see a button labelled `Run Tests`. Press this button to run the `JUnit` tests.
- You should see a `BlueJ: Test Results` window pop up. If everything is correct, you should see a green bar that indicates that your code has passed the `JUnit` tests. If your program is incorrect, you will see a red bar. You can click on the method name to get more information about the problem. Otherwise, just click on the `Close` button, and you can go ahead and upload this program to Web-CAT.

### Part B: Submission

- Submit your Java program `SumEvens.java` by uploading it to the Web-CAT automated grading platform.