1. Look at the code below, then answer the questions:

```
public static void someMethod(int maxCount) {
   for(int counter = 0; counter < maxCount; counter++) {
      System.out.println("The value of counter = " + counter);
   }
}</pre>
```

- 1. What is the scope of the variable with the identifier counter?
- 2. What is the scope of the variable with the identifier maxCount?
- 2. Look at the code below, then answer the question:

```
public static int someOtherMethod() {
    while(true) {
        int userInput = getUserInput();

        if(userInput != -1) {
            break;
        }
    }

    return userInput;
}
```

- a. What is Netbeans highlighting an error with the variable userInput?
- c. Look at the code below, then answer the question:

```
public static int importantMethod() {
   int number1 = 10, number2 = 20;
   return add();
}

public static int add() {
   return number1 + number2;
}
```

- a. Netbean is complaining again about variables 'number1' and 'number2'. Why?
- d. What is a method's signature?
- 5. What is the difference between formal arguments and actual arguments?
- 6. Write a method that accepts an array of integers and returns the sum of all the integers in the array.
- 7. Write a method call arrayJoin that accepts two arrays as arguments and returns a new integer array that contains all the elements of the two arrays passed as arguments. Here is its signature:

```
int[] joinArray(int[] firstArray, int[] secondArray)
```

The elements in the new array copied **firstArray** first, and then **secondArray**.

For example:

```
int[] first = {1, 2, 3};
int[] second = {7, 8, 9};

// ...
int[] newArray = arrayJoin(first, second);

// Contents of newArray: [1, 2, 3, 7, 8, 9]
```

8. Write a method called 'arrayFlatten'. This method accepts as a single argument a 2-dimensional array of floating point numbers. Here is the method's signature:

```
float[] arrayFlatten(float[][] inputArray)
```

The method will return a 1-dimensional array containing all the values from the 2-dimenional array. For example: