


L8a

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Due Oct 30, 2018 by 11:59pm **Points** 10 **Submitting** a file upload **File Types** zip
Available after Oct 22, 2018 at 8am

1. Get [Chapter8_FillInTheCode.java](#) . Code the answers in java in the provided file.
2. Go to section 8.11.2 (page 546) and read problem #25. In a text document, explain what this method does.
3. Do the same for problem #26. Answer the following question: "Is the else block inside the for loop needed? Justify your answer"
4. Download the code from [L8a.zip](#) and complete the following exercises. When finished submit BOTH files for grading.
 - a. Implement the methods that are declared as skeletons in `ArrayMethodsL8a` class. See javaDoc and sample run.
 - b. Implement a "business" method that returns the sum of all the elements of an array of *ints* that are at even index. Call your method from the client.
 - c. Implement a "business" method that based on the content of the instance variable `intArray` creates an array of *booleans*, assigning *true* for any element of the `intArray` array greater than or equal to 100; and *false* otherwise. It returns the *booleans* array to the client.

For example, if the `intArray` had elements: 12, 125, 3, 100, 250, and 5 the new array's elements would be: *false*, *true*, *false*, *true*, *true*, and *false*

Make sure that the client prints the content of the received *boolean* array.

In the service class use the following signature for your method: `public boolean [] toBoolean()`

In the client you would call the method as something like: `boolean [] intAsBoolean = arr.toBoolean();`

and you would write a `for` loop to print the content of the `intAsBoolean` array.

- d. Implement a "business" method that returns the percentage of elements greater than or equal to 90 in an array of *ints*.

To properly test your method you need to define three different arrays in your client:

1. array that does not have any elements of 90
2. array that has more than one element that is 90
3. array that has all elements that are 90