CSCI-101 Programming 1

Lab 11, Part b - Week of November 14

INSTRUCTIONS

Inside your **labs** directory create a file named **Lab11b.java**.

In the **Lab11b** class add the following:

1. A method named **printIndices** that takes an array of integers as an argument and prints to the screen (on the same line with spaces between them) the valid indices of the array.

2. A method named **printElements** that takes an array of integers as an argument and prints to the screen (on the same line with spaces between them) the elements in the array.

3. A method named **printEvenIndices** that takes an array of integers as an argument and prints to the screen (on the same line with spaces between them) the even indices of the array.

4. A method named **printElementsAtEvenIndices** that take an array of integers as an argument and prints to the screen (on a single line with spaces between them) the elements in the array that are at even indices.

5. A method named **printIndicesOfEvenElements** that takes an array of integers as an argument and prints to the screen (on a single line with spaces between them) the indices of the even elements in the array.

6. A method named **printEvenElements** that takes an array of integers as an argument and prints to the screen (on a single line with spaces between) the even elements in the array.

In the **main** method of **Lab11b** do the following.

1. Declare an array named **arr1** that can hold 10 integers.
2. Use a loop to store the even numbers between 2 and 20 in **arr1**.
3. Print the indices of **arr1**.
4. Print the elements in **arr1**.
5. Print the even indices of **arr1**.
6. Print the elements that are at even indices in **arr1**.
7. Print the indices of the even elements in **arr1**.
8. Print the even elements in **arr1**.

9. Declare an array named **arr2** that can hold 10 integers.
10. Use a loop to store the multiples of 3 from 30 in **arr2**.
11. Print the indices of **arr2**.
12. Print the elements in **arr2**.
13. Print the even indices of **arr2**.

14. Print the elements that are at even indices in **arr2**.
15. Print the indices of the even elements in **arr2**.
16. Print the even elements in **arr2**.