Arrays Exercise

1. Create a class called **TestArray**

2. Create an instance variable called **a** of type **int array**. Initialize it to contain a couple of integer values.

3. Implement the method **public void printArray()** which prints all the integer values in array **a**

4. Implement the method **public boolean isEven(int index)** which returns **true** if the integer on the specified index is even, and **false** if it is odd

5. Implement the method **public int countEven()** which returns the number of even numbers in array **a**

6. Implement the method **public booelan linearSearch (int i)** which returns **true** if the parameter **i** is in array **a**, false if it is not

7. Implement the method **public void addAnInt(int number)** which adds the parameter **number** to the end of array **a**. Notice that arrays are not dynamic, you must write code that makes room for the number you want to add

8. Searching an array may be faster if it is sorted. Find a suitable method in the **Arrays class** that **sorts** the array before you search. Change the **linearSearch** method to use this functionality.