CSCI-101 Programming II
Quiz 4b

Name _____

1. Write a generic class named **OddArrayList** that satisfies the following properties.

   1. The class has a constructor that takes an integer as an argument and initializes a field that contains an array of **Objects** whose length is equal to the value passed into the constructor.

   2. The class has a method named **add** that adds a generic element to the array at the smallest index possible. If the array is full the method throws a **AintNoRoomException**.

   3. The class has a method named **size** that returns the number of elements that have been added to the array.

   4. The class implements the **Iterable** interface. The iterator returns only the non-null elements in the list that have odd indices.

2. Write a program in a file named **OddArrayListTest.java**.

   1. The program creates an instance of **OddArrayList** that can hold 10 integers, adds the values 1, 2, 3, 4, and 5 to the list, and then use the class's iterator to print the elements in the list that have odd indices.