```java
import java.util.Random;
import java.util.Scanner;

public class sortAndSearch {
    public static void main(String[] args) {
        int[] numbers = new int[50];
        Random rand = new Random();

        for (int i = 0; i < numbers.length; i++) {
            numbers[i] = rand.nextInt(101);
        }

        System.out.println("Unordered list:");
        for (int number : numbers) {
            System.out.print(number + " ");
        }
        System.out.println();

        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number to search for: ");
        int searchValue = scanner.nextInt();

        int position = linearSearch(numbers, searchValue);
        if (position != -1) {
            System.out.println("Number found at position: " + position);
        } else {
            System.out.println("Number not found.");
        }

        bubbleSort(numbers);

        System.out.println("Ordered list:");
        for (int number : numbers) {
            System.out.print(number + " ");
        }
        System.out.println();

        position = linearSearch(numbers, searchValue);
        if (position != -1) {
            System.out.println("Number found at position: " + position);
        } else {
            System.out.println("Number not found.");
        }

        scanner.close();
```

```java
        } else {
            System.out.println("Number not found.");
        }

        bubbleSort(numbers);

        System.out.println("Ordered list:");
        for (int number : numbers) {
            System.out.print(number + " ");
        }
        System.out.println();

        position = linearSearch(numbers, searchValue);
        if (position != -1) {
            System.out.println("Number found at position: " + position);
        } else {
            System.out.println("Number not found.");
        }

        scanner.close();
    }

    public static int linearSearch(int[] array, int value) {
        for (int i = 0; i < array.length; i++) {
            if (array[i] == value) {
                return i;
            }
        }
        return -1;
    }

    public static void bubbleSort(int[] array) {
        int n = array.length;
        for (int i = 0; i < n - 1; i++) {
            for (int j = 0; j < n - i - 1; j++) {
                if (array[j] > array[j + 1]) {
                    // swap array[j+1] and array[j]
                    int temp = array[j];
                    array[j] = array[j + 1];
                    array[j + 1] = temp;
                }
            }
        }
    }
}
```

OUTPUT:

```
Console
<terminated> sortAndSearch [Java Application] C:\Users\DELL\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.1.v20240426-1149\jre\bin\javaw.exe  (20 Aug 2024, 9:07:44 am – 9:07:52 am) [pid: 4144]
Unordered list:
85 11 65 41 82 61 68 7 69 14 7 28 43 17 0 17 60 81 38 34 62 32 9 34 15 13 48 61 34 46 33 2 7 93 56 43 29 39 58 2 91 55 89 43 7 29 47 79 50 15
Enter a number to search for: 33
Number found at position: 30
Ordered list:
0 2 2 7 7 7 7 9 11 13 14 15 15 17 17 28 29 29 32 33 34 34 34 38 39 41 43 43 43 46 47 48 50 55 56 58 60 61 61 62 65 68 69 79 81 82 85 89 91 93
Number found at position: 19
```