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rch.java - Eclipse IDE
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 Navigate Search Project Run Window
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                                                                                                                                                                     Q Java EE 🐉 🕵
                                                                                        Employee.java

☑ SortAndSearch.iava ×
  AccountGenerator.iava
                         J main java

☑ FactorialTrace.iava

                                                          NonLinear.iava
                                                                           Linear.iava
                                                                                                         StackDriver.iava
                                                                                                                           CourseCollection.iava
   1 package dj;
    2● import java.util.Random;
    3 import java.util.Scanner;
   5 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:");
              displayArray(numbers);
              Scanner scanner = new Scanner(System.in);
              System.out.print("\nEnter the number to search: ");
              int searchValue = scanner.nextInt();
              int position = linearSearch(numbers, searchValue);
              if (position != -1) {
                   System.out.println("Number " + searchValue + " found at position " + position);
                   System.out.println("Number " + searchValue + " not found.");
              bubbleSort(numbers);
              System.out.println("\nOrdered list:");
              displayArray(numbers);
              position = linearSearch(numbers, searchValue);
              if (position !=-1) {
                  System.out.println("Number" + searchValue + " found at position " + position + " in the ordered list."):
                                                                                                                                                 Console X
  <terminated > SortAndSearch [Java Application] C:\Users\MAITHREYEE\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.2.v20240802-1626\jre\bin\javaw.exe (22 Aug 2024, 8:14:19 am - 8:14:26 am) [pid: 23932]
 Unordered list:
  <u>27 48 4 81 27 59 53 76 26 61 98 15 3</u>6 69 6 56 94 63 21 27 33 90 32 0 28 3 40 78 84 66 35 75 72 60 71 40 37 97 71 26 22 20 48 40 0 94 66 49 27 83
 Enter the number to search: 2
 Number 2 not found.
 Ordered list:
 0 0 3 4 6 15 20 21 22 26 26 27 27 27 27 28 32 33 35 36 37 40 40 40 48 48 49 53 56 59 60 61 63 66 66 69 71 71 72 75 76 78 81 83 84 90 94 94 97 98
 Number 2 not found in the ordered list.
```