File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Project Explorer

- Lab_7
  - JRE System Library [JavaSE-17]
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    - module-info.java
  - LearnJava

Part1.java   Part2.java   Part3.java

```
71              System.out.println( Error: file not found );
72              return;
73          }
74
75          Employee[] employeeArray = new Employee[employees.size()];
76          for (int i = 0; i < employees.size(); i++) {
77              employeeArray[i] = employees.get(i);
78          }
79
80          sort.SelectionSort(employeeArray, 0, employeeArray.length);
81
82          System.out.println("Sorted Employee IDs and Names:");
83          for (Employee emp : employeeArray) {
84              System.out.println(emp.id + " " + emp.name);
```

Outline

- Lab7
  - Part1
    - Employee
    - Sorting
    - main(String[]) : void

Problems   Javadoc   Declaration   Console

<terminated> Part1 (1) [Java Application] C:\Users\chait\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (Mar 22, 2024, 2:25:32 PM – 2:25:39 PM)

```
Sorted Employee IDs and Names:
11 Mahika
13 Chandana
19 Sandeep
22 Vyshnavi
23 Vijaya
24 Murali
29 Jaideep
33 Ananya
34 Siri
39 Riya
41 Vivek
44 Aarav
46 Rohan
55 Srikar
55 Shreya
61 Arya
62 Ashish
62 Nikitha
66 Mahesh
67 Akash
69 Kavya
71 Saanvi
75 Ishita
78 Diya
81 Deva
87 Sanjana
89 Mira
90 Priya
93 Priya
98 Aditi
Enter the ID to search: 13
Employee found at index 1: 13 Chandana
```

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Project Explorer

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    - module-info.java
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Part1.java   Part2.java   Part3.java

Outline   Coverage

- Lab7
  - Part1
    - Employee
    - Sorting
    - main(String[]) : void

```java
                System.out.println("Error: file not found");
                return;
            }

        Employee[] employeeArray = new Employee[employees.size()];
        for (int i = 0; i < employees.size(); i++) {
            employeeArray[i] = employees.get(i);
        }

        sort.SelectionSort(employeeArray, 0, employeeArray.length);

        System.out.println("Sorted Employee IDs and Names:");
        for (Employee emp : employeeArray) {
            System.out.println(emp.id + " " + emp.name);
```

Problems   Javadoc   Declaration   Console

<terminated> Part1 (1) [Java Application] C:\Users\chait\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (Mar 22, 2024, 2:26:56 PM – 2:27:01 PM)

```
Sorted Employee IDs and Names:
11 Mahika
13 Chandana
19 Sandeep
22 Vyshnavi
23 Vijaya
24 Murali
29 Jaideep
33 Ananya
34 Siri
39 Riya
41 Vivek
44 Aarav
46 Rohan
55 Srikar
55 Shreya
61 Arya
62 Ashish
62 Nikitha
66 Mahesh
67 Akash
69 Kavya
71 Saanvi
75 Ishita
78 Diya
81 Deva
87 Sanjana
89 Mira
90 Priya
93 Priya
98 Aditi
Enter the ID to search: 99
Employee not found!
```

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Project Explorer

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  - JRE System Library [JavaSE-17]
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        - Part1
      - Part2.java
      - Part3.java
      - module-info.java
  - LearnJava

```java
1   package Lab7;
2
3   import java.util.Stack;
4
5   public class Part2 {
6
7       public static String infixToPostfix(String infix) {
8           StringBuilder postfix = new StringBuilder();
9           Stack<Character> stack = new Stack<>();
10
11          for (char c : infix.toCharArray()) {
12              if (Character.isDigit(c)) {
13                  postfix.append(c);
14              } else if (c == '+' || c == '-' || c == '*' || c == '/') {
15                  while (!stack.isEmpty() && precedence(stack.peek()) >= precedence(c)) {
16                      postfix.append(stack.pop());
17                  }
18                  stack.push(c);
19              }
20          }
21
22          while (!stack.isEmpty()) {
23              postfix.append(stack.pop());
24          }
25
26          return postfix.toString();
27      }
```

Outline

- Lab7
  - Part2

Problems   Javadoc   Declaration   Console

<terminated> Part2 [Java Application] C:\Users\chait\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (Mar 22, 2024, 2:26:16 PM – 2:26:16 PM) [p

```
Infix: 1+9*3
Postfix: 193*+
Evaluation: 28

Infix: 9 + 6 - 3 * 2 + 5
Postfix: 96+32*-5+
Evaluation: 14

Infix: 5 + 2 - 8 / 2 + 6 - 7 + 6 * 3
Postfix: 52+82/-6+7-63*+
Evaluation: 20
```

Writable   Smart Insert   5 : 19 : 62

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Project Explorer

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      - Part2.java
      - Part3.java
      - module-info.java
  - LearnJava

Part1.java   Part2.java   Part3.java

```java
1  package Lab7;
2
3  import java.util.Scanner;
4
5  public class Part3 {
6
7      // Function to check if a string is a palindrome
8      public static boolean isPalindrome(String str) {
9          int left = 0;
10         int right = str.length() - 1;
11
12         while (left < right) {
13             if (str.charAt(left) != str.charAt(right)) {
14                 return false; // Not a palindrome
15             }
16             left++;
17             right--;
18         }
19         return true; // Palindrome
20     }
21
22     public static void main(String[] args) {
23         Scanner scanner = new Scanner(System.in);
24
25         System.out.print("Enter a string to check if it's a palindrome: ");
26         String input = scanner.nextLine();
27
```

Outline   Coverage

- Lab7
  - Part3
    - isPalindrome(String) : bool
    - main(String[]) : void

Problems   Javadoc   Declaration   Console

<terminated> Part3 [Java Application] C:\Users\chait\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (Mar 22, 2024, 2:26:29 PM – 2:26:35 PM) [p

Enter a string to check if it's a palindrome: BOB

The input string is a palindrome.

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Project Explorer

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Part1.java   Part2.java   Part3.java

```java
 1  package Lab7;
 2
 3  import java.util.Scanner;
 4
 5  public class Part3 {
 6
 7      // Function to check if a string is a palindrome
 8      public static boolean isPalindrome(String str) {
 9          int left = 0;
10          int right = str.length() - 1;
11
12          while (left < right) {
13              if (str.charAt(left) != str.charAt(right)) {
14                  return false; // Not a palindrome
15              }
16              left++;
17              right--;
18          }
19          return true; // Palindrome
20      }
21
22      public static void main(String[] args) {
23          Scanner scanner = new Scanner(System.in);
24
25          System.out.print("Enter a string to check if it's a palindrome: ");
26          String input = scanner.nextLine();
27
```

Outline   **Coverage**

- Lab7
  - Part3
    - isPalindrome(String) : bool
    - main(String[]) : void

Problems   Javadoc   Declaration   **Console**

```
<terminated> Part3 [Java Application] C:\Users\chait\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (Mar 22, 2024, 2:26:40 PM – 2:26:46 PM) [p
Enter a string to check if it's a palindrome: Chaitanya

The input string is not a palindrome.
```