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eclipse-workspace - Order List Handler/src/QuickSort.java - Eclipse IDE
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> Capture Grade Statistics Using For-lo
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Main.java Order.java Customer.java Display.java QuickSort.java
1
2 public class QuickSort {
3     public static int partition (Customer arr[], int left, int right, String type) {
4         Customer pivot = arr[right];
5         int i = (left - 1);
6         for (int j = left; j < right; j++) {
7             if (type.equals("orderNo")) {
8                 if (arr[j].getOrderNumber() >= pivot.getOrderNumber()) {
9                     i++;
10
11                     Customer temp = arr[i];
12                     arr[i] = arr[j];
13                     arr[j] = temp;
14                 }
15             }
16             else if(type.equals("customerName")) {
17                 if (arr[j].getName().compareTo(pivot.getName())>=0) {
18                     i++;
19
20                     Customer temp = arr[i];
21                     arr[i] = arr[j];
22                     arr[j] = temp;
23                 }
24             }
25         }
26         Customer temp = arr[i+1];
27         arr[i+1] = arr[right];
28         arr[right] = temp;
29
30         return i+1;
31     }
32
33     public static void sort(Customer arr[], int left, int right, String type) {
34         if (left < right) {
35             int pi = partition(arr, left, right, type);
36             sort(arr, left, pi-1, type);
37             sort(arr, pi+1, right, type);
38         }
39     }
40 }
41
42 }
43

Outline
QuickSort
  partition(Customer[], int, int, Stri
  sort(Customer[], int, int, String):

Writable Smart Insert 6:31:190
```


eclipse-workspace - Order List Handler/src/Main.java - Eclipse IDE

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Main.java

```
1 import java.util.Scanner;
2
3 public class Main {
4     ...
5 }
```

Console

<terminated> Main [Java Application] C:\Users\Jinyume\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (Oct 8, 2022, 10:39:53 PM – 10:43:02 PM)

Welcome to our online retailer's order list handler.
What would you like to do?

Please select one of the options below:
1. Add an order to the queue
2. Remove an order from the queue
3. Exit

Your choice: 1
Enter customer name: Laura Bateman
Enter order number: 23
Enter total order cost: 14.5

Here is the queue sorted by the customer's name:

Laura Bateman, Order #23, Cost: \$14.5

Here is the queue sorted by the customer's order #:

Laura Bateman, Order #23, Cost: \$14.5

Please select one of the options below:
1. Add an order to the queue
2. Remove an order from the queue
3. Exit

Your choice: 1
Enter customer name: Michael Russo
Enter order number: 12
Enter total order cost: 105.4

Here is the queue sorted by the customer's name:

Michael Russo, Order #12, Cost: \$105.4
Laura Bateman, Order #23, Cost: \$14.5

Here is the queue sorted by the customer's order #:

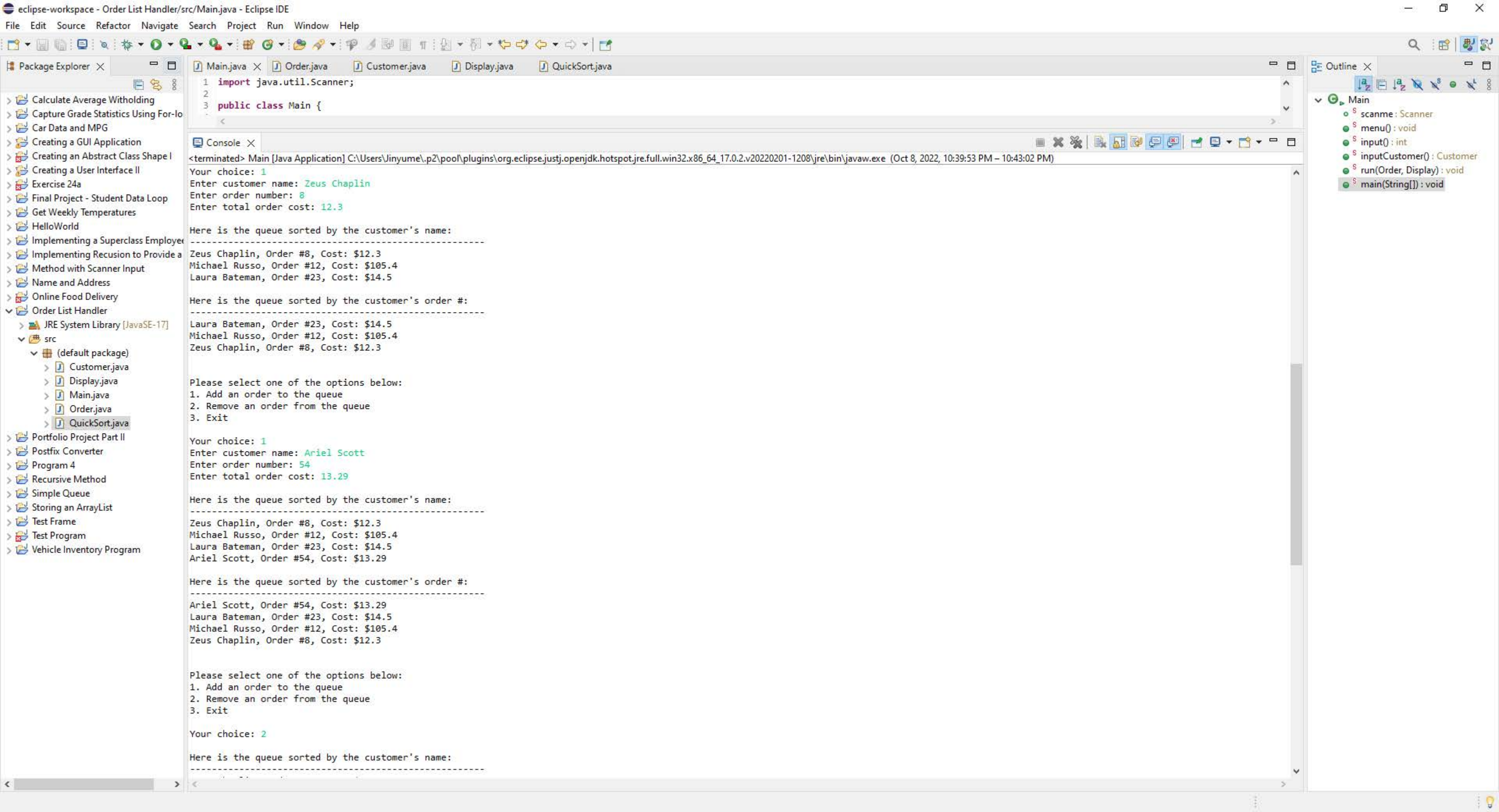
Laura Bateman, Order #23, Cost: \$14.5
Michael Russo, Order #12, Cost: \$105.4

Please select one of the options below:
1. Add an order to the queue
2. Remove an order from the queue
3. Exit

Your choice: 1
Enter customer name: Zeus Chaplin
Enter order number: 8
Enter total order cost: 12.3

Outline

- Main
 - scanme : Scanner
 - menu() : void
 - input() : int
 - inputCustomer() : Customer
 - run(Order, Display) : void
 - main(String[]) : void



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 - scanme : Scanner
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Console X

```
<terminated> Main [Java Application] C:\Users\Jinyume\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.17.0.2.v20220201-1208\jre\bin\javaw.exe (Oct 8, 2022, 10:39:53 PM – 10:43:02 PM)
```

Your choice: 2

Here is the queue sorted by the customer's name:

```
Zeus Chaplin, Order #8, Cost: $12.3
Michael Russo, Order #12, Cost: $105.4
Ariel Scott, Order #54, Cost: $13.29
```

Here is the queue sorted by the customer's order #:

```
Ariel Scott, Order #54, Cost: $13.29
Michael Russo, Order #12, Cost: $105.4
Zeus Chaplin, Order #8, Cost: $12.3
```

```
Please select one of the options below:
1. Add an order to the queue
2. Remove an order from the queue
3. Exit
```

Your choice: 2

Here is the queue sorted by the customer's name:

Zeus Chaplin, Order #8, Cost: \$12.3
Ariel Scott, Order #54, Cost: \$13.29

Here is the queue sorted by the customer's order #:

Ariel Scott, Order #54, Cost: \$13.29
Zeus Chaplin, Order #8, Cost: \$12.3

```
Please select one of the options below:
1. Add an order to the queue
2. Remove an order from the queue
3. Exit
```

Your choice: 2

Here is the queue sorted by the customer's name:

Ariel Scott, Order #54, Cost: \$13.29

Here is the queue sorted by the customer's order #:

Ariel Scott, Order #54, Cost: \$13.29

Please select one of the options below:

1. Add an order to the queue
2. Remove an order from the queue



Scanner

```
void
int
```

```
customer() : Customer
```

```
er, Display) : void
```

```
ring[] : void
```

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