Project 1

Problem 1: Merge two sorted array
Test Case 1:

```
----TESTCASE 1----
[3, 7, 9]
```

Test Case 2:

```
----TESTCASE 2----
[1, 2, 7, 9]
```

Test Case 3:

```
----TESTCASE 3----
[1, 3, 7, 8, 10, 12, 15, 18]
```

Test Case 4:

```
----TESTCASE 4----
[1, 3, 5, 5, 5, 5, 6, 8, 10, 12, 15, 16, 17, 17, 18, 20, 21, 25, 28]
```

Problem 2:
AlaCarte Multiplication
Test Case 1:

```
ALa Carte Multiplication
----TESTCASE1----
51058000
```

Test Case 2:

```
----TESTCASE2----
125959625
```

Test Case 3:

```
----TESTCASE3----
-46763892
```

Test Case 4:

```
----TESTCASE4----
-699571972416124973504
```

Test Case 5:

```
-----TESTCASE5-----
45334236391046496343970934505043430998160
```

Test Case 6:

```
-----TESTCASE6-----
45334236391046496343970934505043430998160
Tazeens-MacBook-Air:~ tazeen$
```

Rectangle Multiplication:

Test Case 1:

```
ws/jdt:ts java project/bi
Rectangle Multiplication
-----TESTCASE 1 -----
The product is 51058000
```

Test Case2:

```
-----TESTCASE 2 -----
The product is 125959625
```

Test Case 3:

```
-----TESTCASE 3 -----
The product is -46763892
```

Test Case 4:

```
-----TESTCASE 4 -----
The product is -699571972416124973504
```

Test Case 5:

```
-----TESTCASE 5 -----
The product is 45334236391046496343970934505043430998160
```

Test Case 6:

```
-----TESTCASE 6 -----
The product is 45334236391046496343970934505043430998160
Tazeens-MacBook-Air:~ tazeen$
```