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Programming Patterns

420-301-VA

Section 01

Assignement 2

# Question 1 :

```
 5    └  | */
 6       package assignment2;
 7
 8    ⊟  import java.util.Arrays;
 9
10    ⊟  /**
11        * The square of each number sorted in non-decreasing order
12        * @author Kosta Nikopoulos
13    └   */
14       public class Q1 {
```

Output - Assignment2 (run)  ✕

```
run:
0 1 9 16 100 BUILD SUCCESSFUL (total time: 0 seconds)
```

# Question 2 :

```
 6       package assignment2;
 7
 8    ⊟  /**
 9        * The square of each number sorted in non-decreasing order
10        * DIFFERENT APPROACH
11        * @author Kosta Nikopoulos
12    └   */
13       public class Q2 {
14
```

Output - Assignment2 (run)  ✕

```
run:
0 1 9 16 100 BUILD SUCCESSFUL (total time: 0 seconds)
```

# Question 3 :

```
6    package assignment2;
7
8  ⊟  import java.util.*;
9
10 ⊟  /**
11     * Moving the 0s to the end of the list
12     * @author Kosta Nikopoulos
13     */
14    public class Q3 {
15
```

**Output - Assignment2 (run)** ✕

```
run:
Enter the list :
0 1 0 3 12 g
1 3 12 0 0 BUILD SUCCESSFUL (total time: 31 seconds)
```

# Question 4 :

```
5    ⁻  /
6       package assignment2;
7
8  ⊟  import java.util.ArrayList;
9     import java.util.Arrays;
10    import java.util.List;
11
12 ⊟  /**
13     * Minimizing the total amount of operations
14     * @author Kosta Nikopoulos
15     */
```

**Output - Assignment2 (run)** ✕

```
run:
Originial list: [0, 1, 0, 3, 12]
Result list: 1 3 12 0 0
BUILD SUCCESSFUL (total time: 0 seconds)
```

## Question 5 :

```
6    package assignment2;
7
8  ⊟ import java.util.Arrays;
9    import java.util.Collections;
10 └ import java.util.List;
11
12 ⊟ /**
13    * Sorting and Merging Integer lists
14    * @author Kosta Nikopoulos
15 └ */
16    public class Q5 {
17
```

Output - Assignment2 (run) ✕

```
run:
[1, 2, 2, 3, 5, 6]
BUILD SUCCESSFUL (total time: 0 seconds)
```

## Question 6 :

```
6    package assignment2;
7
8  ⊟ import java.util.Arrays;
9  └ import java.util.List;
10
11 ⊟ /**
12    * Sorting and Merging Integer lists
13    * DIFFERENT APPROACH
14    * @author Kosta Nikopoulos
15 └ */
16    public class Q6 {
17
```

Output - Assignment2 (run) ✕

```
run:
[1, 2, 2, 3, 5, 6]
BUILD SUCCESSFUL (total time: 0 seconds)
```