```
Solution:
```

```
package TEST;
public class SortByFrequency {
          public static void main(String[] args) {
             <u>int[]</u> array = { 2, 2, 3, 4, 5, 12, 2, 3, 3, 3, 12, };
             sortByCount(array);
          //Array element's count
          static int elementsCount(int ar[], int n)
             int count = 0;
             for(int i : ar)
                int max = n;
                if(i == max)
                    count++;
                }
                max = i;
             return count;
          static void sortByCount(int ar[])
             int temp = 0;
             for(int i = 0; i < ar.length; i++)
                for(<u>int</u> j = i + 1; j < ar.length; j++)
                {
                    if(elementsCount(\underline{ar}, \underline{ar[i]}) < elementsCount(\underline{ar}, \underline{ar[j]}))
                       \underline{\text{temp}} = \underline{\text{ar}[i]};
                        \underline{ar}[i] = \underline{ar}[j];
                        ar[j] = temp;
                }
             printArray(ar);
          static void printArray(int[] ar)
          {
             for(int i : ar)
                 System.out.print(i+" ");
          }
Output: -
```

3 3 3 3 2 2 2 12 12 4 5

}

Q2) Longest consecutive subsequence

```
Solution:
package TEST;
import java.util.Arrays;
public class LongCons {
        public static void main(String[] args) {
                int[] num_array = { 49, 1, 3, 200, 2, 4, 70, 5 };
                Arrays.sort(num_array);
                int k = 1, i;
                for (i = 0; i < num_array.length - 1; i++) {</pre>
                         if ((num_array[i + 1] - num_array[i]) == 1) {
                         }
                System.out.println("Original array is: " + Arrays.toString(num_array));
                System. out. println("The array Length is " + num_array.length);
                System. out. println("The longest consecutive subsequence of this array is: " + k);
        }
}
Output:-
```

Original array is: [1, 2, 3, 4, 5, 49, 70, 200]

The array Length is 8

The longest consecutive subsequence of this array is: 5