Problem 1: Minimum number of operations to make array equal to 1

```
package javaPractic;
import java.util.*;
public class MinOperation {    //class created
     public static int minOperation (int arr[], int n) {      // function for min
operation
     elements in hash.
           for (int i=0; i<n; i++) //loop iterating</pre>
                if (hash.containsKey(arr[i]))
                     hash.put(arr[i], hash.get(arr[i])+1);
                else hash.put(arr[i], 1);
           int max count = 0;
                             // find the max frequency
           Set<Integer> s = hash.keySet();
           for (int i : s)
                if (max count < hash.get(i))max count = hash.get(i);</pre>
           return (n - max count); // return result
     }
     public static void main(String[] args) {    //main program created
           int arr[] = {1, 5, 2, 1, 3, 2, 1};
           int n = arr.length;
           System.out.print(minOperation(arr, n)); //function calling
     }
}
```

Problem 2: Distinct prime factors of product of array

```
package javaPractic;
import java.util.*;
public class DistinctPrimeFactors {    //class created
     HashSet<Integer> m = new HashSet<Integer>(); // use set to store distinct
factors
          for (int i = 0; i < a.size(); i++) {      // iterate over every element of</pre>
array
                int sq = (int)Math.sqrt(a.get(i));
                for (int j = 2; j <= sq; j++) {      //loop iterating</pre>
                     if (a.get(i) % j == 0) {
                           m.add(j);
                           while (a.get(i) % j == 0) {
                                 a.set(i, a.get(i) / j); //checking condition
                           }
                if (a.get(i) > 1) { //if true then execute below statements
                     m.add(a.get(i));
                }
```