```java
package com.company;

public class Java_24_Practice7 {
    public static void main(String[] args) {
   //Practice Problem 1
//        float marks [] ={45.7f, 67.8f, 63.4f, 99.2f, 100.0f};
//        float sum = 0;
//        for(float element: marks){
//            sum += element;
//        }
//        System.out.println("The value of sum is " + sum);


            // Practice Problem 1
        /* float [] marks = {45.7f, 67.8f, 63.4f, 99.2f, 100.0f};
        float sum = 0;
        for(float element:marks){
            sum = sum + element;
        }
        System.out.println("The value of sum is " + sum);


        // Practice Problem 2
        float [] marks = {45.7f, 67.8f, 63.4f, 99.2f, 100.0f};
        float num = 45.57f;
        boolean isInArray = false;
        for(float element:marks){
            if(num==element){
                isInArray = true;
                break;
            }
        }
        if(isInArray){
            System.out.println("The value is present in the array");
        }
        else{
            System.out.println("The value is not present in the array");
```

```
38          }
39
40
41          // Practice Problem 3
42
43          float [] marks = {45.7f, 67.8f, 63.4f, 99.2f
    , 100.0f};
44          float sum = 0;
45          for(float element:marks){
46              sum = sum + element;
47          }
48          System.out.println("The value of average
    marks is " + sum/marks.length);
49
50
51          // Practice Problem 4
52          int [][] mat1 = {{1, 2, 3},
53                           {4, 5, 6}};
54          int [][] mat2 = {{2, 6, 13},
55                           {3, 7, 1}};
56          int [][] result = {{0, 0, 0},
57                             {0, 0, 0}};
58
59          for (int i=0;i<mat1.length;i++){ // row
    number of times
60              for (int j=0;j<mat1[i].length;j++) { //
    column number of time
61                  System.out.format(" Setting value for
     i=%d and j=%d\n", i, j);
62                  result[i][j] = mat1[i][j] + mat2[i][j
    ];
63              }
64          }
65
66          // Printing the elements of a 2-D Array
67          for (int i=0;i<mat1.length;i++){ // row
    number of times
68              for (int j=0;j<mat1[i].length;j++) { //
    column number of time
69                  System.out.print(result[i][j] + " ");
70                  result[i][j] = mat1[i][j] + mat2[i][j
    ];
71              }
72              System.out.println(""); // Prints a new
```

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 72 line
 73         }
 74
 75         // Practice Problem 5
 76         int [] arr = {1, 21, 3, 4, 5, 34, 67};
 77         int l = arr.length;
 78         int n = Math.floorDiv(l, 2);
 79         int temp;
 80
 81         for(int i=0; i<n; i++){
 82             // Swap a[i] and a[l-1-i]
 83             // a   b   temp
 84             // |4| |3| ||
 85             temp = arr[i];
 86             arr[i] = arr[l-i-1];
 87             arr[l-i-1] = temp;
 88         }
 89
 90         for(int element: arr){
 91             System.out.print(element + " ");
 92         }
 93
 94         // Practice Problem 6
 95         int [] arr = {1, 2100, 3, 455, 5, 34, 67};
 96         int max = Integer.MIN_VALUE;
 97         for(int e: arr){
 98             if(e>max){
 99                 max = e;
100             }
101         }
102         System.out.println("the value of the maximum
    element in this array is: "+ max);
103
104         // Practice Problem 6
105         System.out.println(Integer.MIN_VALUE);
106         System.out.println(Integer.MAX_VALUE);
107         */
108             // Practice Problem 7
109             boolean isSorted = true;
110             int [] arr = {1, 12, 3, 4, 5, 34, 67};
111             for(int i=0;i<arr.length-1;i++){
112                 if(arr[i] > arr[i+1]){
113                     isSorted = false;
114                     break;
```

```
115                     }
116                 }
117                 if(isSorted){
118                     System.out.println("The Array is
    sorted");
119                 }
120                 else{
121                     System.out.println("The Array is not
     sorted");
122                 }
123
124             }
125 }
126
```