//Question 1

Author: P.laasya Enter a number : 7 7 is a Disarium Number.

Process finished.

```
import java.util.Arrays;
public class Main
{
   private static void sortBinaryArray(int[] inputArray)
   {
      int zeroCount = 0;

      System.out.println("Author:P.laasya");
      System.out.println("Input Array Before Sorting:"+Arrays.toString(inputArray));

   for (int n = 0; n < inputArray.length; n++)
   {
      iputArray[n] == 0)
      iputArray[n] == 0)
}</pre>
```

Question 2

```
if (inputArray[n] == 0)
{
          zeroCount++;
}

for (int n = 0; n < zeroCount; n++)

inputArray[n] = 0;

for (int n = zeroCount; n < inputArray.length; n++)

Try Dcoder's keyboard ;

if (inputArray[n] == 0)

{
          inputArray[n] = 0;
}

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if (inputArray[n] == 0)

{
          inputArray[n] = 0;
}

if (inputArray[n] == 0)

{
          inputArray[n] == 0)

{
          inputArray[n] == 0;
}

if (int n = zeroCount; n < inputArray.length; n++)

}

If it is inputArray[n] == 0;
}

If it is inputArray[n] == 0
```

```
for (int n = zeroCount; n < inputArray.length; n++)
{
   inputArray[n] = 1;
}

System.out.println("Input Array After Sorting:"+Arrays.toString(inputArray));
}

public static void main(String[] args)
{
   sortBinaryArray(new int[] {1, 0, 1, 1, 0, 1, 0, 0});
}

Ill : Try Dcoder's keyboard | InputArray.length; n++)

Ill : Try Dcoder's keyboard | InputArray.length; n++

Ill : Try Dcoder's keyboard | In
```

```
Author:P.laasya
Input Array Before Sorting: [1, 0, 1, 1, 0, 1, 0, 0]
Input Array After Sorting: [0, 0, 0, 0, 1, 1, 1, 1]

Process finished.
```

//question3

```
result = result + replacingnumber * multiply;

else
result = result + remainder * multiply;

multiply *= 10;
a = a / 10;

return result;
```

```
24 }
25
26 public static void main(String[] args)
27 {
28    int a = 645, numbertobereplaced = 6, replacingnumber = 5;
29    System.out.println("Author:P.laasya");
30    System.out.println(replaceDigit(a, numbertobereplaced, replacingnumber));
31 }
32 }

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**Try Dcoder's keyboard**

**Try Dcoder's keyboard**

**Docoder's keyboard**
```

Author:P.laasya 545 Process finished. Scanned with CamScanne

```
public class Main
{
    public static int binarySearch(int[] M, int left, int right, int n)
    {
        if (left > right) {
            return -1;
        }
    }

int mid = (left + right) / 2;

if (n == M[mid]) {
        return mid;

File info ①
```

//Question 5

```
int key = 3;
int left = 0;
int right = M.length - 1;

int index = binarySearch(M, left, right, key);

System.out.println("Author:P.laasya");
if (index != -1) {
    System.out.println("Element found at index " + index);
} else {
    System.out.println("Element not found in the array");
}

File info ①
```

Author:P.laasya Element not found in the array Process finished.Author:P.laasya Element not found in the array Process finished.