```
import java.io.*;
   class countzot {
   static void sort012(int a[], int arr_size)
       {
           int lo = 0;
           int hi = arr_size - 1;
           int mid = 0, temp = 0;
           while (mid <= hi) {
               switch (a[mid]) {
10
               case 0: {
                   temp = a[lo];
                   a[lo] = a[mid];
                   a[mid] = temp;
                   10++;
                   mid++;
16
                   break;
               case 1:
                   mid++;
20
                   break;
               case 2: {
                   temp = a[mid];
                   a[mid] = a[hi];
                   a[hi] = temp;
                   hi--;
26
                   break;
28
           }
30
```

```
static void printArray(int arr[], int arr_size)
       {
           int i;
           for (i = 0; i < arr_size; i++)
               System.out.print(arr[i] + " ");
           System.out.println("");
   public static void main(String[] args)
       {
         System.out.println("Madan Mohan");
   System.out.println("51834548");
int arr[] = { 0, 1, 1, 0, 1, 2, 1, 0, 0, 0, 1 };
           int arr_size = arr.length;
           sort012(arr, arr_size);
   System.out.println("Array after seggregation ");
           printArray(arr, arr_size);
48
       }
   }
```

× Terminal



Madan Mohan 51834548 Array after seggregation 0 0 0 0 0 1 1 1 1 2

Process finished.

```
class GFG
  static int replaceDigit(int x, int d1,
                 int d2)
    int result = 0, multiply = 1;
    while (x \% 10 > 0)
      int remainder = x % 10;
11 if (remainder == d1)
         result = result + d2 * multiply;
     else
        result = result + remainder * multiply;
         multiply *= 10;
    x = x / 10;
    return result;
20 }
21 public static void main(String[] args)
22 {
    System.out.println("Madan Mohan");
    System.out.println("51834548");
    int x = 645, d1 = 6, d2 = 5;
    System.out.println(replaceDigit(x, d1, d2));
27 }
28 }
        Terminal
   ×
Madan Mohan
51834548
545
Process finished.
```

```
class pattern
   public static void main(String ar[])
  {
     System.out.println("Madan Mohan");
     System.out.println("51834548");
  int i, j, k = 1;
  System.out.println("Pattern");
  for(i=1;i<=5;i++)
  {
  for(j=1;j<=i;j++)
12 {
13 if ( j == 1 || j == i )
  k = 1;
15 else
16 k = 0;
17 System.out.print(k+" ");
18 }
19 System.out.print("\n");
20 }
```

X Terminal Madan Mohan 51834548 Pattern 1 1 1 1 0 1 1 0 0 1 1 0 0 0 1 Process finished.

```
System.out.println("Element is not found!");
}

public static void main(String args[]){
System.out.println("Madan Mohan");
System.out.println("51834548");
int arr[] = {10,20,30,40,50};
int key = 30;
int last=arr.length-1;
binarySearch(arr,0,last,key);
}
```

× Terminal

Madan Mohan 51834548 Element is found at index: 2

Process finished.