



1.java



Saved

```
1 //1st Answer
2 import java.util.Scanner;
3 class Main
4 {
5     public static boolean disariumNumber(int num
6     {
7         int copy = num, d = 0, sum = 0;
8         String s = Integer.toString(num);
9         int len = s.length();
10        while(copy>0)
11        {
12            d = copy % 10;
13            sum = sum + (int)Math.pow(d,len);
14            len--;
15            copy = copy / 10;
16        }
17        if(sum==num)
18        {
19            return true;
20        }
21        else
22        {
23            return false;
24        }
25    }
26    public static void NdisariumNumber(int count
27    {
28        int c=0;
29        for(int i=1;i<1000;i++)
30        {
31            if(disariumNumber(i))
32            {
33                System.out.print(i+" ");
34                c++;
35            }
36            if(c==count)
37            {
38                break;
39            }
40        }
41    }
42    public static void disariumNumber(int num1,
43    {
44        int c=0;
45        for(int i=num1;i<=num2;i++)
46        {
47            if(disariumNumber(i))
48            {
49                System.out.print(i+" ");
50            }
51        }
52    }
53 }
```

: Make public

disariumNumber(i))



```

49         System.out.print(i+" ");
50         c++;
51     }
52 }
53 }
54 public static void main (String[] args) {
55     Scanner sc=new Scanner(System.in);
56     System.out.println("Rahul \nSAPID:518345");
57     System.out.print("Enter a number: ");
58     int num=sc.nextInt();
59     if(disariumNumber(num))
60     {
61         System.out.println(num+" is a disari
62     }
63     else
64     {
65         System.out.println(num+" is not a di
66     }
67     System.out.println("\nEnter number of di
68     int n=sc.nextInt();
69     System.out.println("Here are your "+n+"
70     NdisariumNumber(n);
71     System.out.print("\nEnter from where to
72     int num1=sc.nextInt();
73     System.out.print("Enter till where we ha
74     int num2=sc.nextInt();
75     System.out.println("Here are your disari
76     if(num1<num2)
77     disariumNumber(num1, num2);
78     else
79     disariumNumber(num2, num1);
80 }
81 }

```





```
Rahul
SAPID:51834543
Enter a number: 3
3 is a disarium Number.

Enter number of disarium Numbers you want to check:
9
Here are your 9 disarium Numbers..
1 2 3 4 5 6 7 8 9
Enter from where to start check: 5
Enter till where we have to check: 9
Here are your disarium Numbers between 5 and 9:
5 6 7 8 9
Process finished.
```



2 nd 0Ne.java



Saved

```
1 //2Nd Answer
2 import java.util.Scanner;
3 class Main{
4     public static int[] binarySort(int[]a,int n)
5     {
6         int temp;
7         for(int i=0;i<n;i++)
8         {
9             for(int j=i+1;j<n;j++)
10            {
11                if(a[i]>=a[j])
12                {
13                    temp=a[i];
14                    a[i]=a[j];
15                    a[j]=temp;
16                }
17            }
18        }
19        return a;
20    }
21    public static void main (String[] args) {
22        Scanner sc=new Scanner(System.in);
23        System.out.print("Enter size of the array");
24        int n=sc.nextInt();
25        int[]a=new int[n];
26        System.out.println("Enter "+n+" elements");
27        for(int i=0;i<n;i++)
28        {
29            a[i]=sc.nextInt();
30            if(a[i]!=0&&a[i]!=1)
31            {
32                System.out.println("Enter only 0 or 1");
33                a[i]=sc.nextInt();
34            }
35        }
36        a=binarySort(a,n);
37        System.out.println("\nBinary array after sorting");
38        for(int i=0;i<8;i++)
39        {
40            System.out.print(a[i]+" ");
41        }
42        System.out.println("Rahul Java2 51834543");
43    }
44 }
```

Make public





3.java



Saved

```
1 // 3rd Answer
2 import java.util.*;
3 import java.lang.*;
4 class Replace
5 {
6     static int replaceDigit(int x, int d1,
7                             int d2)
8     {
9         int result = 0, multiply = 1;
10
11         while (x % 10 > 0)
12         {
13             int remainder = x % 10;
14             if (remainder == d1){
15                 result = result + d2 * multiply;
16             }
17             else {
18                 result = result + remainder * multiply;
19             }
20             multiply *= 10;
21             x = x / 10;
22         }
23         return result;
24     }
25     public static void main(String[] args)
26     {
27         Scanner sc=new Scanner(System.in);
28         System.out.println("Enter a number:");
29         int x =sc.nextInt();
30         System.out.println("enter which no you replace");
31         int d1 =sc.nextInt();
32         System.out.println("enter the number to get replaced");
33         int d2 =sc.nextInt();
34         System.out.println(replaceDigit( x, d1, d2));
35         System.out.println("Rahul Java2 51834543");
36     }
37 }
```





Enter a number:

945

enter which no you replace:

5

enter the number to get replaced:

4

944

Rahul Java2 51834543

Process finished.





```
1 //5th Answer
2 public class Main
3 {
4     public static int binarySearch(int[] M, int left, int right, int n)
5     {
6         if (left > right) {
7             return -1;
8         }
9
10
11         int mid = (left + right) / 2;
12
13         if (n == M[mid]) {
14             return mid;
15         }
16
17         else if (n < M[mid]) {
18             return binarySearch(M, left, mid - 1, n);
19         }
20
21         else {
22             return binarySearch(M, mid + 1, right, n);
23         }
24     }
25
26     public static void main(String[] args)
27     {
28         int[] M = {9,7,2,5,6};
29         int key = 2;
30
31         int left = 0;
32         int right = M.length - 1;
33
34         int index = binarySearch(M, left, right, key);
35
36         System.out.println("Rahul \nSAPID:51834543")
37         if (index != -1) {
38             System.out.println("Element found at index " + index);
39         } else {
40             System.out.println("Element not found in the array");
41         }
42     }
43 }
```





Terminal



```
Rahul  
SAPID:51834543  
Element found at index 2  
  
Process finished.
```