



disarium.java



Saved

```
1  import java.io.*;
2  public class Main
3  {
4      public static void main(String[] args)throws IOException
5      {
6          BufferedReader br=new BufferedReader
7          (new InputStreamReader(System.in));
8          System.out.println("Name:G.vyshnavi,SAP ID:51834743")
9          System.out.print("Enter a number : ");
10         int n = Integer.parseInt(br.readLine());
11         int copy = n, a = 0, sum = 0;
12         String b = Integer.toString(n);
13         int len = b.length();
14
15         while(copy>0)
16         {
17             a = copy % 10;
18             sum = sum + (int)Math.pow(a,len);
19             len--;
20             copy = copy / 10;
21         }
22
23         if(sum == n)
24             System.out.println(n+" is a Disarium Number.");
25         else
26             System.out.println(n+" is not a Disarium Number.");
27     }
28 }
```

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Name:G.vyshnavi,SAP ID:51834743

Enter a number : 25

25 is not a Disarium Number.

Process finished.





binary.java



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```
1  import java.util.Arrays;
2
3  public class Main
4  {
5      private static void sortBinaryArray(int[] inputArray)
6      {
7          int zeroCount = 0;
8
9          System.out.println("Name:G.vyshnavi,SAP ID:51834743");
10         System.out.println("Input Array Before Sorting : "
11         +Arrays.toString(inputArray));
12
13
14         for (int n = 0; n < inputArray.length; n++)
15         {
16             if (inputArray[n] == 0)
17             {
18                 zeroCount++;
19             }
20         }
21
22
23
24         for (int n = 0; n < zeroCount; n++)
25         {
26             inputArray[n] = 0;
27         }
28
29
30
31         for (int n = zeroCount; n < inputArray.length; n++)
32         {
33             inputArray[n] = 1;
34         }
35
36         System.out.println("Input Array After Sorting : "+Arrays.to
37     }
```

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binary.java

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```
13
14
15     for (int n = 0; n < inputArray.length; n++)
16     {
17         if (inputArray[n] == 0)
18         {
19             zeroCount++;
20         }
21     }
22
23
24     for (int n = 0; n < zeroCount; n++)
25     {
26         inputArray[n] = 0;
27     }
28
29
30
31     for (int n = zeroCount; n < inputArray.length; n++)
32     {
33         inputArray[n] = 1;
34     }
35
36     System.out.println("Input Array After Sorting : "
37     +Arrays.toString(inputArray));
38 }
39
40
41 public static void main(String[] args)
42 {
43     sortBinaryArray(new int[] {1, 0, 1, 1, 0, 1, 0, 0});
44 }
45 }
```

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Terminal



Name:G.vyshnavi,SAP ID:51834743

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.





replace.java

Saved



```
1  public class Replace
2  {
3      static int replaceDigit(int a, int numbertobereplaced,
4                              int replacingnumber)
5      {
6          int result = 0, multiply = 1;
7
8          while (a % 10 > 0)
9          {
10
11              int remainder = a % 10;
12
13              if (remainder == numbertobereplaced)
14                  result = result + replacingnumber * multiply;
15
16              else
17                  result = result + remainder * multiply;
18
19              multiply *= 10;
20              a = a / 10;
21          }
22          return result;
23      }
24
25      public static void main(String[] args)
26      {
27          int a = 656689, numbertobereplaced = 6
28          , replacingnumber = 3;
29          System.out.println("Name:G.vyshnavi,SAP ID:51834743");
30          System.out.println(replaceDigit(a, numbertobereplaced,
31                                          replacingnumber));
32      }
33  }
```

Make public





Name:G.vyshnavi,SAP ID:51834743
353389

Process finished.





pattern.java



Saved

```
1 class Dcoder
2 {
3     public static void main(String args[])
4     {
5         System.out.println("Name:G.vyshnavi,SAP ID:51834743");
6         for(int i=1;i<=5;i++)
7         {
8             for(int j=1;j<=i;j++)
9             {
10                if(i==5 && j==3)
11                {
12                    System.out.print("@");
13                }
14                else if(j==1 || j==i)
15                {
16                    System.out.print("1");
17                }
18                else
19                {
20                    System.out.print("0");
21                }
22            }
23            System.out.println();
24        }
25    }
26 }
```

Try Dcoder's keyboard





Terminal



Name:G.vyshnavi,SAP ID:51834743

1

11

101

1001

10@01

Process finished.



Saved



```
1 public class Main
2 {
3     public static int binarySearch(int[] M, int left, int right, int n)
4     {
5         if (left > right) {
6             return -1;
7         }
8
9
10        int mid = (left + right) / 2;
11
12        if (n == M[mid]) {
13            return mid;
14        }
15
16        else if (n < M[mid]) {
17            return binarySearch(M, left, mid - 1, n);
18        }
19
20        else {
21            return binarySearch(M, mid + 1, right, n);
22        }
23    }
24
25    public static void main(String[] args)
26    {
27        int[] M = { 2, 5, 6, 8, 9, 10 };
28        int key = 3;
29
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("Name:G.vyshnavi,SAP ID: 51834743");
37        if (index != -1) {
38            System.out.println("Element found at index " + index);
39        }
40    }
41 }
```

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Vyshu.java



Saved

```
12     if (n == M[mid]) {
13         return mid;
14     }
15
16     else if (n < M[mid]) {
17         return binarySearch(M, left, mid - 1, n);
18     }
19
20     else {
21         return binarySearch(M, mid + 1, right, n);
22     }
23 }
24
25
26 public static void main(String[] args)
27 {
28     int[] M = { 2, 5, 6, 8, 9, 10 };
29     int key = 3;
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("Name:G.vyshnavi,SAP ID: 51834743");
37     if (index != -1) {
38         System.out.println("Element found at index "
39             + index);
40     } else {
41         System.out.println("Element not found in the array");
42     }
43 }
44 }
```

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Terminal



Name:G.vyshnavi,SAP ID: 51834743

Element not found in the array

Process finished.

