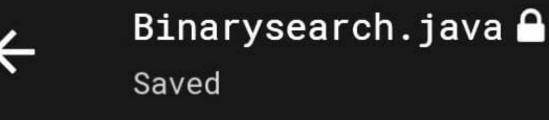
```
Binarysearch.java 🖴
         Saved
  / Java program to implement Binary Search for
  / strings
  lass BinaryString {
      static int binarySearch(String[] arr, String x)
        {
            int l = 0, r = arr.length - 1;
             while (1 \le r) {
10
                int m = 1 + (r - 1) / 2;
                 int res = x.compareTo(arr[m]);
12
     // Check if x is present at mid
14
            if (res ==0)
15
               return m;
      // If x greater, ignore left half
16
            if (res > 0)
                1 = m + 1;
18
      // If x is smaller, ignore right half
19
20
             else
               r = m - 1;
22
23
                return -1;
24 }
25
26
    // Driver method to test above
27
    public static void main(String []args)
28
    {
29
       System.out.println("Author:-Likith");
30
       String[] arr = { "dhoni", "raina", "zakariya",
31
       "jadeja"};
       String x = "zakariya";
32
33
        int result = binarySearch(arr, x);
34
        if (result == -1)
           System.out.println("Element not present");
35
36
        else
37
        System.out.println("Element found at "
38
                                 + "index " + result);
39
40
41
     }
42
```



•

**×** Terminal



Author:-Likith
Element found at index 2



Process finished.



```
disarium.java 🖴
                                                <del>→</del>
         Saved
  import java.util.Scanner;
  public class Disarium{
   public static void main(String args[])
         {
           Scanner sc = new Scanner(System.in);
6
7
           System.out.print("Input a number :
           int num = sc.nextInt();
9
           int copy = num, d = 0, sum = 0;
           String s = Integer.toString(num);
10
           int len = s.length();
12
           while(copy>0)
13
14
                d = copy % 10;
15
                sum = sum + (int)Math.pow(d,len);
16
                len--;
17
                 copy = copy / 10;
18
               }
19
20
               if(sum == num)
21
                   System.out.println("Disarium Number
22
               else
23
                   System.out.println("Not a Disarium
24
          }
25
      }
26
   × Terminal
Input a number : 135
Disarium Number.
Process finished.
```

```
class zeroesOnesSorting{
   // function to segregate 0s and 1s
      static void segregateOand1(int arr[], int n)
       {
           int count = 0; // counts the no of zeros in
           for (int i = 0; i < n; i++) {
               if (arr[i] == 0)
               count++;
10
12
           // loop fills the arr with 0 until count
13
14
          for (int i = 0; i < count; i++)
15
16
               arr[i] = 0;
18
         // loop fills remaining arr space with 1
19
20
           for (int i = count; i < n; i++)
22
23
               arr[i] = 1;
24
25
      }
26
          // function to print segregated array
        static void print(int arr[], int n) {
28
           System.out.print("Array after segregatio
29
             n is ");
             for (int i = 0; i < n; i++)
                  System.out.print(arr[i] + " ");
32
33
         // driver 🔼 nction
34
      public stati void main(String[] args)
35
36
   {
37
        int arr[] = new int[]{ 0, 1, 0, 1, 1, 1 };
           int n = arr.length;
38
39
           segregateOand1(arr, n);
40
          print(arr, n);
41
42
```

binarysort.java 🔒

Saved

 $\rightarrow$