



1stAnswer23JulyComplete.java



Saved

```
1
2 //1st answer
3
4
5 import java.util.*;
6
7 // Compiler version JDK 11.0.2
8
9 class Dcoder
10 {
11     public static void main(String args[])
12     {
13
14         Scanner sc=new Scanner(System.in);
15
16         System.out.println("author:P.Hemanth\nsap.id
17
18         while(true){
19
20             System.out.println("if you want to check w
21             System.out.println("if you want to know th
22             System.out.println("enter any choice:");
23             int choice=sc.nextInt();
24
25             switch(choice){
26                 case 1:
27                     System.out.println("desarium number or no
28                     between();
29                     break;
30
31                 case 2: System.out.println("no.of desarium
32                     desarium());
33                     break;
34                 default: System.out.println("enter only abc
35
36             }
37         }
38     }
39     }
40     }
41     public static void between(){
42         int n,a,d,s=0,cnt=0;
43         Scanner sc=new Scanner(System.in);
44
45         System.out.println("Enter the no.to check whether
46         n=sc.nextInt();
47         a=n;
48         while(a>0)
49         {
50             a=a/10;
```





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```
41     public static void between(){
42         int n,a,d,s=0,cnt=0;
43         Scanner sc=new Scanner(System.in);
44
45         System.out.println("Enter the no.to check whether
46         n=sc.nextInt();
47         a=n;
48         while(a>0)
49         {
50             a=a/10;
51             ++cnt;
52         }
53         a=n;
54         while(a>0)
55         {
56             d=a%10;
57             a=a/10;
58             s=s+(int)(Math.pow(d,cnt));
59             cnt--;
60         }
61         if(s==n)
62             System.out.println("The number is a Disarium nu
63         else
64             System.out.println("The number is not a Disariu
65         }
66
67         public static int desarium(int n){
68             int length = 0;
69             while(n != 0){
70                 length = length + 1;
71                 n = n/10;
72             }
73             return length;
74         }
75
76         //sumOfDigits() will calculates the sum of digi
77         public static int sumOfDigits(int num){
78             int sum = 0, rem = 0;
79             int len = desarium(num);
80
81             while(num > 0){
82                 rem = num%10;
83                 sum = sum + (int)Math.pow(rem,len);
84                 num = num/10;
85                 len--;
86             }
87             return sum;
88         }
89
90
91     }
```





2ndAnswer23july.java



Saved



```
1
2 //2nd answer
3
4 import java.util.*;
5
6 // Compiler version JDK 11.0.2
7
8
9 class Segregation{
10
11
12
13     // function to segregate 0s and 1s
14     static void segregate0and1(int arr[], int n)
15     {
16
17         int count = 0; // counts the no of zeros in
18
19
20
21
22
23         for (int i = 0; i < n; i++) {
24
25             if (arr[i] == 0)
26
27                 count++;
28
29         }
30
31
32         // loop fills the arr with 0 until count
33         for (int i = 0; i < count; i++)
34
35             arr[i] = 0;
36
37
38
39
40
41         // loop fills remaining arr space with 1
42         for (int i = count; i < n; i++)
43
44             arr[i] = 1;
45
46     }
47
48
49
50
```





2ndAnswer23july.java



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```
41 // loop fills remaining arr space with 1
42
43 for (int i = count; i < n; i++)
44     arr[i] = 1;
45
46 }
47
48
49
50
51 // function to print segregated array
52
53 static void print(int arr[], int n)
54 {
55
56     System.out.print("Array after segregation is ");
57
58     for (int i = 0; i < n; i++)
59         System.out.print(arr[i] + " ");
60
61 }
62
63
64
65
66
67 public static void main(String[] args)
68 {
69
70     Scanner sc=new Scanner(System.in);
71     System.out.println("author:P.Hemanth\nsap");
72     System.out.println("enter the size of the array");
73     int size=sc.nextInt();
74     int arr[]= new int[size];
75
76     System.out.println("enter "+size+" elements");
77
78     for(int i=0;i<size;i++){
79         arr[i]=sc.nextInt();
80     }
81
82     int n = arr.length;
83
84     segregate0and1(arr, n);
85
86     print(arr, n);
87
88
89
90
```



× Terminal



```
author:P.Hemanth
sap.id:51834553
enter the size of the array
4
enter 4 elements:
0
0
1
0
Array after segregation is 0 0 0 1
Process finished.
```



3rdAnswer23july.java



Saved

```
1
2 // 3rd answer
3 import java.util.*;
4
5 // Compiler version JDK 11.0.2
6
7
8 class ReplaceDigits
9 {
10
11 static int replaceDigit(int number , int d1,
12                          int d2)
13 {
14
15     int result = 0, multiply = 1;
16
17
18
19
20 while (number % 10 > 0)
21 {
22
23
24
25
26     // Take remainder of number
27
28     // starting from the unit
29
30     // place digit
31
32     int remainder = number % 10;
33
34
35
36     // check whether it is equal
37
38     // to the digit to be replaced.
39
40     // if yes then replace
41
42     if (remainder == d1)
43
44         result = result + d2 * multiply;
45
46
47
48     else // else remain as such
49
50         result = result + remainder * multiply;
```





3rdAnswer23july.java



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```
39
40 // if yes then replace
41
42 if (remainder == d1)
43
44     result = result + d2 * multiply;
45
46
47
48 else // else remain as such
49
50     result = result + remainder * multiply;
51
52
53
54 // Update and move forward
55
56 // from unit place to
57
58 // hundred place and so on.
59
60 multiply *= 10;
61
62 number = number / 10; // update the value
63
64 }
65
66 return result;
67 }
68
69
70 // Driver code
71
72 public static void main(String[] args)
73 {
74     Scanner sc=new Scanner(System.in);
75     System.out.println("author:P.Hemanth\nsap.id");
76     System.out.println("enter the number:");
77     int number=sc.nextInt();
78
79     System.out.println("enter the digit present");
80     int d1=sc.nextInt();
81
82     System.out.println("enter the digit to replace");
83     int d2=sc.nextInt();
84
85     System.out.println(replaceDigit(number, d1, d2));
86 }
87 }
```



× Terminal



author:P.Hemanth

sap.id: 51834553

enter the number:

73636

enter the digit present in the above number:

7

enter the digit to replace:

3

output

33636

Process finished.





5thAnswer23July.java



Saved

```
1 //5th answer
2
3 import java.util.*;
4
5 // Compiler version JDK 11
6 class StringSearch{
7
8
9
10 // Returns index of x if it is present in arr[]
11
12 // else return -1
13
14 static int binarySearch(String[] arr, String x)
15 {
16
17     int l = 0, r = arr.length - 1;
18     while (l <= r) {
19
20         int m = l + (r - l) / 2;
21
22
23
24
25         int res = x.compareTo(arr[m]);
26
27
28
29
30 // Check if x is present at mid
31
32 if (res == 0)
33
34     return m;
35
36
37
38 // If x greater, ignore left half
39
40 if (res > 0)
41
42     l = m + 1;
43
44
45
46 // If x is smaller, ignore right half
47
48 else
49
50     r = m - 1;
```





5thAnswer23July.java



Saved

```
48         else
49
50             r = m - 1;
51
52     }
53
54
55
56     return -1;
57
58 }
59
60
61
62 // Driver method to test above
63
64 public static void main(String []args)
65 {
66     Scanner sc=new Scanner(System.in);
67     System.out.println("enter the size of t
68     int size=sc.nextInt();
69     String arr[]=new String[size];
70     System.out.println("enter "+size+" elem
71     for(int i=0;i<size;i++){
72         arr[i]=sc.nextLine();
73     }
74
75
76     System.out.println("enter the word to s
77     String x=sc.nextLine();
78
79
80
81     int result = binarySearch(arr, x);
82
83
84
85     if (result == -1)
86
87         System.out.println("Element not present
88
89     else
90
91         System.out.println("Element found at "
92
93         + "index " + result);
94
95 }
96 }
```

