

```
1 // Array Worksheet #1 Name -
2
3 public class Array_Worksheet_1
4 {
5     public static void main(String[] args)
6     {
7         int [] a =
8             {1, 2, 3, 3, 3, 3, 4, 2, 2, 2, 2, 2, 2, 5, 6, 6, 6, 6, 6, 4, 7};
9
10        int index = 0;
11        int soFar = 1;
12        int count = 1;
13
14        for (int k = 1; k < a.length; k++)
15        {
16            if (a[k] == a[k - 1])
17            {
18                count++;
19
20                if (count > soFar)
21                {
22                    soFar = count;
23                    index = k;
24                }
25            }
26            else
27            {
28                count = 1;
29            }
30        }
31
32        System.out.println(a[index]);
33    }
34 }
35
36 // Trace the code above
37
38 //     index           soFar           count           k
39 //     _____     _____     _____     _
```