

Final

Sunday, May 07, 2023

6:01 PM

4.

```
1  int i = 1, index1 = 0, index2 = 1; //1
2  int max1 = a[0]; //1
3  if (max1 < a[1]) { //2
4      max1 = a[1]; max2 = a[0]; //3
5  } else max2 = a[1]; //4
6  while (i < N - 1) { //5
7      if (a[i] > max1 && N > i + 1) { //6
8          max2 = max1; //7
9          max1 = a[i]; //7
10         index2 = index1; //7
11         index1 = i; //7
12     } else if (a[i] > max2) { //8
13         max2 = a[i]; //9
14         index2 = i; //9
15     }
16     i++; //10
17 }
18 System.out.println("The maximum element is " + max1 + " and it can be found at the index " + index1); //11
19 System.out.println("The second highest maximum element is " + max2 + " and it can be found at the index " + index2); //12
```

3.

