```
1
 2
   /**
 3
    * Write a description of class BinarySearch here.
 4
 5
    * @author (Yousuf Borna)
 6
    * @version (8/27/2024)
 7
    */
 8 public class BinarySearch
 9 | {
10
       public static void main(String args[]){
11
        int[] arr = {12,14,16,22,25};
12
        int target = 22;
13
14
        int answer = binarySearch(arr, target);
15
        System.out.println("Binary Search address");
16
        System.out.println(answer);
17
       }
18
19
       public static int binarySearch(int arr[], int target){
20
21
           int start=0;
22
            int end = arr.length -1;
23
24
           while(start <= end){</pre>
25
26
                int mid = start + (end -start)/2;
27
28
                if(target > arr[mid]){
29
30
                    start = mid+1;
31
                }
32
                else if(target < arr[mid]){</pre>
33
34
                    end = mid-1;
35
36
                }else{
37
                    return mid;
38
                }
39
40
            }
41
42
            return -1;
43
       }
44 | }
45
```