```
import java.util.Scanner;

public class BinarySearchScanner {
   public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);



      System.out.print("Enter number of elements: ");
      int n = sc.nextInt();

      int[] arr = new int[n];
      System.out.println("Enter " + n + " sorted elements:");
      for (int i = 0; i < n; i++) {
         arr[i] = sc.nextInt();
      }



      System.out.print("Enter element to search: ");
      int key = sc.nextInt();



      int low = 0, high = n - 1, mid;
      boolean found = false;

      while (low <= high) {
         mid = (low + high) / 2;
```

```
            if (arr[mid] == key) {
                System.out.println("Element found at position: " + (mid + 1));
                found = true;
                break;
            } else if (arr[mid] < key) {
                low = mid + 1;
            } else {
                high = mid - 1;
            }
        }

        if (!found) {
            System.out.println("Element not found!");
        }

        sc.close();
    }
}
```