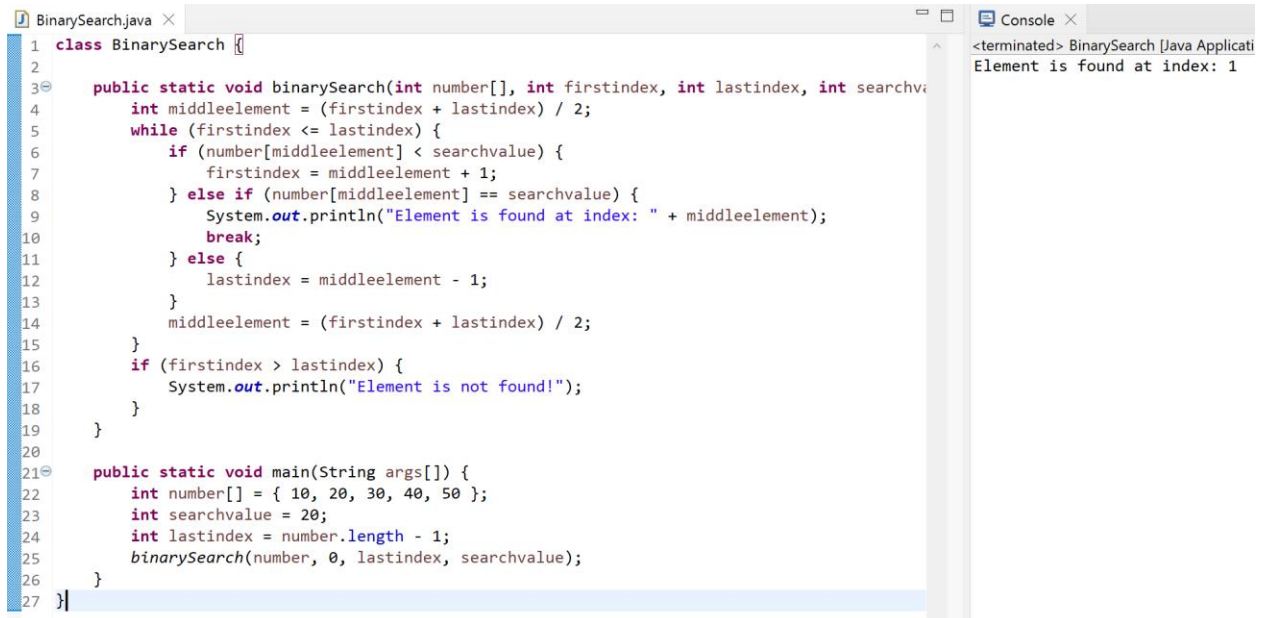


Binary Search Program Screenshots



The screenshot displays a Java IDE with two panels. The left panel shows the source code for `BinarySearch.java`, and the right panel shows the console output.

```
1 class BinarySearch {
2
3     public static void binarySearch(int number[], int firstindex, int lastindex, int searchvalue) {
4         int middleelement = (firstindex + lastindex) / 2;
5         while (firstindex <= lastindex) {
6             if (number[middleelement] < searchvalue) {
7                 firstindex = middleelement + 1;
8             } else if (number[middleelement] == searchvalue) {
9                 System.out.println("Element is found at index: " + middleelement);
10                break;
11            } else {
12                lastindex = middleelement - 1;
13            }
14            middleelement = (firstindex + lastindex) / 2;
15        }
16        if (firstindex > lastindex) {
17            System.out.println("Element is not found!");
18        }
19    }
20
21    public static void main(String args[]) {
22        int number[] = { 10, 20, 30, 40, 50 };
23        int searchvalue = 20;
24        int lastindex = number.length - 1;
25        binarySearch(number, 0, lastindex, searchvalue);
26    }
27 }
```

The console output on the right shows the program's execution results:

```
<terminated> BinarySearch [Java Applicati
Element is found at index: 1
```