```
 1 /opt/homebrew/opt/python@3.11/bin/python3.11 /Users
   /emilenguyen/PycharmProjects/SA1/binary_search.py
 2 How many items in the list? 15
 3 The list: [84, 114, 115, 136, 184, 236, 464, 531,
   631, 697, 712, 748, 773, 855, 891]
 4 What value to search for? ('?' to see the list, 'q
   ' to quit): 84
 5 84 found at index 0
 6 What value to search for? ('?' to see the list, 'q
   ' to quit): 891
 7 891 found at index 14
 8 What value to search for? ('?' to see the list, 'q
   ' to quit): 531
 9 531 found at index 7
10 What value to search for? ('?' to see the list, 'q
   ' to quit): 20
11 20 not found
12 What value to search for? ('?' to see the list, 'q
   ' to quit): 1000
13 1000 not found
14 What value to search for? ('?' to see the list, 'q
   ' to quit): 705
15 705 not found
16 What value to search for? ('?' to see the list, 'q
   ' to quit): 748
17 748 found at index 11
18 What value to search for? ('?' to see the list, 'q
   ' to quit): ?
19 The list: [84, 114, 115, 136, 184, 236, 464, 531,
   631, 697, 712, 748, 773, 855, 891]
20 What value to search for? ('?' to see the list, 'q
   ' to quit): 114
21 114 found at index 1
22 What value to search for? ('?' to see the list, 'q
   ' to quit): 236
23 236 found at index 5
24 What value to search for? ('?' to see the list, 'q
   ' to quit): 300
25 300 not found
26 What value to search for? ('?' to see the list, 'q
   ' to quit): q
```

```
27
28 Process finished with exit code 0
29
```