Sam Trenter a8, understand binary search.

use binary search to find an element with value 8 in the list.

original list [3, 5, -1, 9, 6, 8, 4, 2, 13, 7, 5]

first we sort the list [-1, 2, 3, 4, 5, 5, 6, 7, 8, 9, 13]

than we check the middle element of the array:

[-1, 2, 3, 4, 5, (5), 6, 7, 8, 9, 13]

since five is the middle most object in the list and it is lower than 8, we chop of itself and everything below it. We are left with this.

[6, 7, 8, 9, 13]

now we check the middle most element in the array to see if it is or is higher or lower than our number...

[6, 7, (8), 9, 13]

on this iteration we found the element we are looking for.