**Binary Search Algorithm**

Given:

1. An ordered list
2. A computing agent that can perform the algorithm
3. A search criterion

Steps:

1. Calculate the mid-point of the list.
2. Start at the mid-point of the list.
3. Evaluate the value of the element in the list
4. If the element value equals the search criterion, stop. Else, go to step 5.
5. If the element value is less than the search criterion, eliminate all elements to the left of the element plus the mid-point value. Else go to step 7.
6. Go to step 1.
7. If the element value is greater than the search criterion, eliminate all elements to the right of the element plus the mid-point value. Else, stop.
8. Go to step 1.
9. Stop

if (conditions to meet)…then(perform a specific set of tasks)

else(do this if the condition or conditions fail)

search = 2

2, 4, 6, 8, 10, 14