Finding Number of Items Between Two Integer Numbers

- 1. Call following algorithm for both numbers.
- 2. Return the absolute value of subtraction of indexes of numbers.

Recursive Algorithm for Finding Index of a Number in an Array

- 1. Assign middle to half of the sum of the first and last index.
- 2. Compare the first index and last index.
- 3. if first index is greater than or equal to last index
- 4. **if** the element at the middle of the array is greater than or equal to number
- 5. return middle
- 6. **else**
- 7. return middle + 1
- 8. Compare the element at the middle of array with number.
- 9. **if** the number is equal to element at the middle of the array
- 10. return middle
- 11. else if the number is less than the element at the middle of the array
- 12. Recursively continue with left half subarray.
- 13. else // The number is bigger than the element at the middle of the array
- 14. Recursively continue with right half subarray.