Lecture 27. Basics Counting Operations in Algorithms II

## **Example 27.1**. Consider the recursive binary search algorithm

- (a) Let  $X = \{2, 3, 5, 8, 13, 21, 34, 55, 70\}$ . Evaluate binarySearchRecursive(X, 55).
- (b) Find a recurrence relation of counting number of comparisons in the algorithm
- (c) Use (b) to approximate the worst-case complexity of the recursive binary search function.