

CSCI 162 Homework 9

Prof. William Killian

Due: Nov 25th @ 11:59PM

1. What are the two required components of a recursive function?
2. How does *binary search* work? Describe and justify its complexity.
3. Define *Binary Search Tree*. Draw (as a picture) its ordering requirements.
4. Insert the following into a *Binary Search Tree*: 1, 3, 7, 8, 10, 12, 15. Is this a “good” tree?
5. Assuming you can rearrange the values from above, what sequence would make it “good”?