

Read Ch. 6 Section 3 (pp. 402+) closely and answer the following questions.

1. What does the author mean by a binary search tree (BST) having a "full shape" on p. 405?
2. Give a mathematical expression for the maximum number of nodes in one branch of a BST with a full shape.
3. What is the big O search efficiency for a full BST?
4. What are the 3 cases of node deletion on a binary search tree? Draw a diagram to illustrate each case.

5. Why is the loop

```
while (q->left != 0)
{
    q = q->right;
    qParent = qParent->right;
}
```

important in the code segment at the bottom of p. 409?

