**Exercise**

Suppose a ***Binary Search Tree*** contains 12 nodes, named {r1,r2,r3,….r11,r12}.

1. Draw the tree. Indicate which note is the root node. Include external nodes in your diagram.
2. What are the ancestors of node r5
3. List the nodes that are at level 2.
4. What is the maximum number of comparisons a computer would need to make to find a record in this tree?
5. Explain the purpose of the external nodes.

**Solutions**

