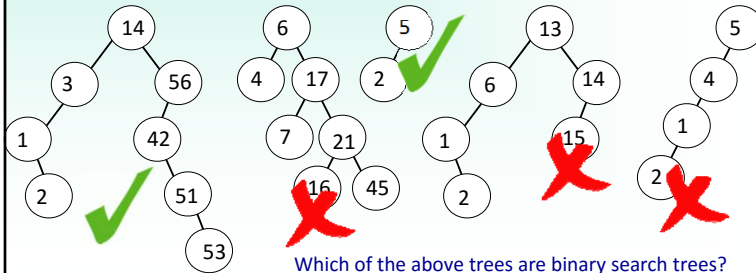


Binary search trees

3

Binary search trees are trees which have the following properties:

- For all nodes the values in the left subtree of that node are smaller than the value of the node
- For all nodes the values in the right subtree of that node are greater than the value of the node



Binary search trees – from lists

20

```
class BST:
    def __init__(self, ...):
        ...

...
def create_from_list(a_list):
    bst = BST(a_list[0])
    for i in range(1, len(a_list)):
        bst.insert(a_list[i])
    return bst
def main():
    a_list = [51, 37, 17, 43, 40, 55, 69, 67, 63]
    bst = create_from_list(a_list)
    print(bst.inorder())
main()
```

Complete the list which will create the tree below:

