

# Sorted List to Binary Search Tree

```
1 class Solution(object):
2     def sortedListToBST(self, head):
3         """
4         input: ListNode head
5         return: TreeNode
6         """
7         # write your solution here
8         array = []
9         while head:
10             array.append(head.val)
11             head = head.next
12         return self.createBST(array)
13
14     def createBST(self, array):
15         if not array:
16             return None
17         return self.bst(array, 0, len(array) - 1)
18
19     def bst(self, array, start, end):
20         if start > end:
21             return None
22         mid = int(round((start + end)/2))
23         root = TreeNode(array[mid])
24         root.left = self.bst(array, start, mid - 1)
25         root.right = self.bst(array, mid + 1, end)
26         return root
27
```