Program 49. Convert Sorted Array to Binary Search Tree Given an integer array nums where the elements are sorted in ascending order, convert it to a height-balanced binary search tree. Example 1: Input: nums = [-10,-3,0,5,9] Output: [0,-3,9,-10,null,5] Explanation: [0,-10,5,null,-3,null,9] is also accepted:

```
PROGRAM:
class TreeNode:
  def __init__(self, val=0, left=None, right=None):
    self.val = val
    self.left = left
    self.right = right
def sortedArrayToBST(nums):
  if not nums:
    return None
  mid = len(nums) // 2
  return TreeNode(nums[mid], sortedArrayToBST(nums[:mid]),
sortedArrayToBST(nums[mid+1:]))
# Example usage
def printLevelOrder(root):
  result, queue = [], [root]
  while queue:
    node = queue.pop(0)
    if node:
      result.append(node.val)
      queue.extend([node.left, node.right])
      result.append(None)
  while result and result[-1] is None:
    result.pop()
  return result
nums = [-10, -3, 0, 5, 9]
root = sortedArrayToBST(nums)
print(printLevelOrder(root)) # Output: [0, -3, 9, -10, None, 5]
# Output::
"C:\Program Files\Python312\python.exe" "C:\Work Space\DAA COADS.PYTHON\program 49.py"
Process finished with exit code 0
```

Time complexity: O(n)