Queue & Binary Tree – Spot Question

Create Least Height Binary Search Tree:

Given an array *A* containing 'n' unique integers, write a function (createLeastHeightTree) to create a binary search tree of the least height with all the integers in A.

Function Declaration: struct TreeNode * createLeastHeightTree(int A[], int n);

Sample:

Input: A = {5, 1, 0, 2, 7 ,3, 4, 9, 8}, n = 9
Output: any binary tree with inorder traversal of 0, 1, 2, 3, 4, 5, 7, 8, 9 and height = 4

Input: A = {2, 3, 1, 5, 0, 6, 7}, n = 7
Ouput: any binary tree with inorder traversal of 0, 1, 2, 3, 5, 6, 7 and height = 3

Input: A = {10, 8}, n = 2
Output: any binary tree with inorder traversal of 8, 10 and height = 2

Input: A = {20}, n = 1
Output: any binary tree with inorder traversal of 20 and height = 1

Input: A = {}, n = 0
Output: NULL