```
private TreeNode buildTree(int[] input, int start, int end) {
    /* Return null when the indices cross, preventing duplicates/infinite
loops */
    if (start > end) {
       return null;
    /* Find the middle index of the array/subarray being input */
    int middleIndex = ((start + end) / 2);
    /* Create a new node with the value from the middle of the array/subarray
*/
    TreeNode nd = new TreeNode(input[middleIndex]);
    /* Create a new subtree to the left using the lower half of the array */
    nd.left = buildTree(input, start, middleIndex - 1);
    /* Create a new subtree to the right using the upper half of the array */
    nd.right = buildTree(input, middleIndex + 1, end);
    /* Return the root of the entire tree */
    return nd;
}
C:\Users\Mewk\Downloads\openjdk-11.0.2_windows-x64_bin\jdk-11.0.2\bin\java.exe "
15
20
22
87
Process finished with exit code 0
```

