```
TreeNode* buildAVL(TreeNode* V, int n) {
    if (n <= 0)
        return nullptr;

    int mid = n / 2;

    TreeNode* root = &V[mid];
    root->left = buildAVL(V, mid);
    root->right = buildAVL(V + mid + 1, n - mid - 1);

    return root;
}
```