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Pseudo code that checks a given binary tree is a minheap

is Min Heap I inout treePtr: Tree NodePtr, inationAex: int, in size: int]

// Checks if the binary tree is complete and each node has higher bey

// than its parent (minheap)

if (TreePtr is NULL) & Empty tree, is a minheap &

// Check if tree is complete by comparing size and index

if (index > = size) & Not complete, is not a minheap }

// Check if node has higher value than its left or right child

if ((treePtr > leftChild > item < treePtr > item) AND treePtr > leftChild

is not NULL) OR (treePtr > rightChild > item < treePtr > rightChild > item AND

treePtr > rightChild is not NULL)) &

It is not a min-heap

}

// Check left and visht subtree
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// Check left and right subtree

leftMin Heap = is Min Heap (tree Ptr -> leftchild), leftchild Index, size)

rightMin Heap = lis Min Heap (tree Ptr -> rightchild, rightchild Index, size)

// if both left and subtree are minheap, tree is a minheap

if (leftMin Heap AND rightMin Heap)

It is a minheap

treeftr = root

index = 0

size = total no of nales

left Child lndex = 2 \* index + 1 right Child lndex = 2 \* index + 2