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Pseudo code that checks a given binary tree is a minheap
is Min Heap ( inout tree Ptr; Tree Node Ptr, inout index; int, in size; int)

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

// than its parent (minheap)

if ( Tree Ptr is NULL) { Empty tree, return true }

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

if ( index > = size ) { Not complete, return false }

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

if ((tree Ptr > left Child > item < tree Ptr > item) AND tree Ptr > left Child

is not NULL) OR ( tree Ptr > right Child > item < tree Ptr > right Child > item AND

tree Ptr > right Child is not NULL)) {
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It is not min-heap, return false

// Check left and right subtree

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

rightMin Heap = Pis Min Heap (tree Ptr +> rightchild, rightchild Index, size)

// if both left and subtree are minheap, return true return (leftMinHeap AND rightMinHeap)

treeftr = root index = 0 size = total no of nodes left Child Index = 2 * index + 1right Child Index = 2 * index + 2