The binary-search-tree property guarantees that for any parent node, all nodes in the left Subtree will be the parent and all nodes in the right subtree will be = the parent. The min-heap property guarantees that for every parent node, both of its children will be > the parent. While the binary-search tree invorcint quarantees that a tree always renain softed left to right, the min-heap invariant only mandates that each ancestry chain remain sorted against itself; not taking into account other ancestry chains on different parts of the free. Min-heaps Cannot be traversed in O(n) time because, unlike BSTs they are not globally sorted. In order to sort the heap, One must run an algorithm that recursively; 1) moves the last node to the top spot 2) percolates the new top rade down until Since step I takes O(n) time and Step 2 takes O (logn) time, heapsort is O (nlogn) and this connot

match the BST's O(n) performance.