

Debugging with Heaps and Trees:

Assume there is a toString method that prints out the contents of the underlying array for a minimum heap. Given the outputs below, which of the following are valid minimum heaps?

Array contents, beginning at index 0: null 1 25 3 41 57 4 19

Array contents, beginning at index 0: 1 6 4 5 9 12 17 18 26

Array contents, beginning at index 0: null 1 6 4 9 12 5 7 14 11 16 18 8



Given the following output from pre-order and in-order tree traversals, construct the corresponding tree:

pre-order tree traversal output: 20 35 12 9 3 45 16 17 2 1 4 8

in-order tree traversal output: 12 35 3 9 20 16 45 1 2 4 17 8

Is there a strategy we can use to help us do this?