

Use the two *heapify* algorithms discussed in class to turn each of the following lists of integers into **MIN**-heaps. Show your work as was done in lecture.

List: 8, 12, 9, 4, 13, 7, 3, 10, 11, 6, 2, 5

Method 1, $O(n \log n)$

Method 2, $O(n)$

List: 22, 15, 10, 18, 20, 9, 6, 7, 16, 12, 8, 14, 4

Method 1, $O(n \log n)$

Method 2, $O(n)$