

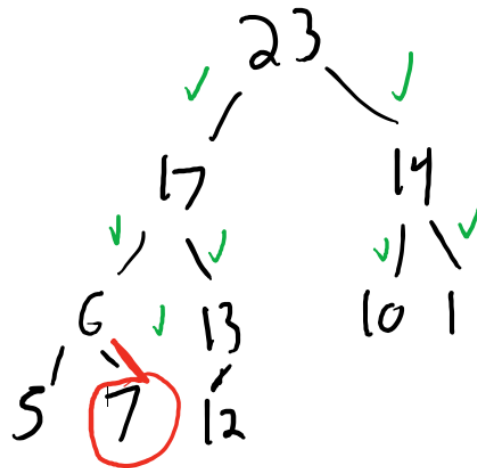
1 Quiz 2

1.1 6.1-4

The smallest element must be a leaf.

1.2 6.1-6

It is not a max heap, because 7 is the child of 6, breaking the max heap rule that a child must be lesser than its parent.



1.3 6.4-1

First, MAX-HEAPIFY is called to make the array into a max heap. Then each step of popping the top element and MAX-HEAPIFY-ing the heap is shown until only a sorted array is left.

1.4 Modular Exponentiation

Do I need to like, make code for this? I guess I'll wait till the assignment is up

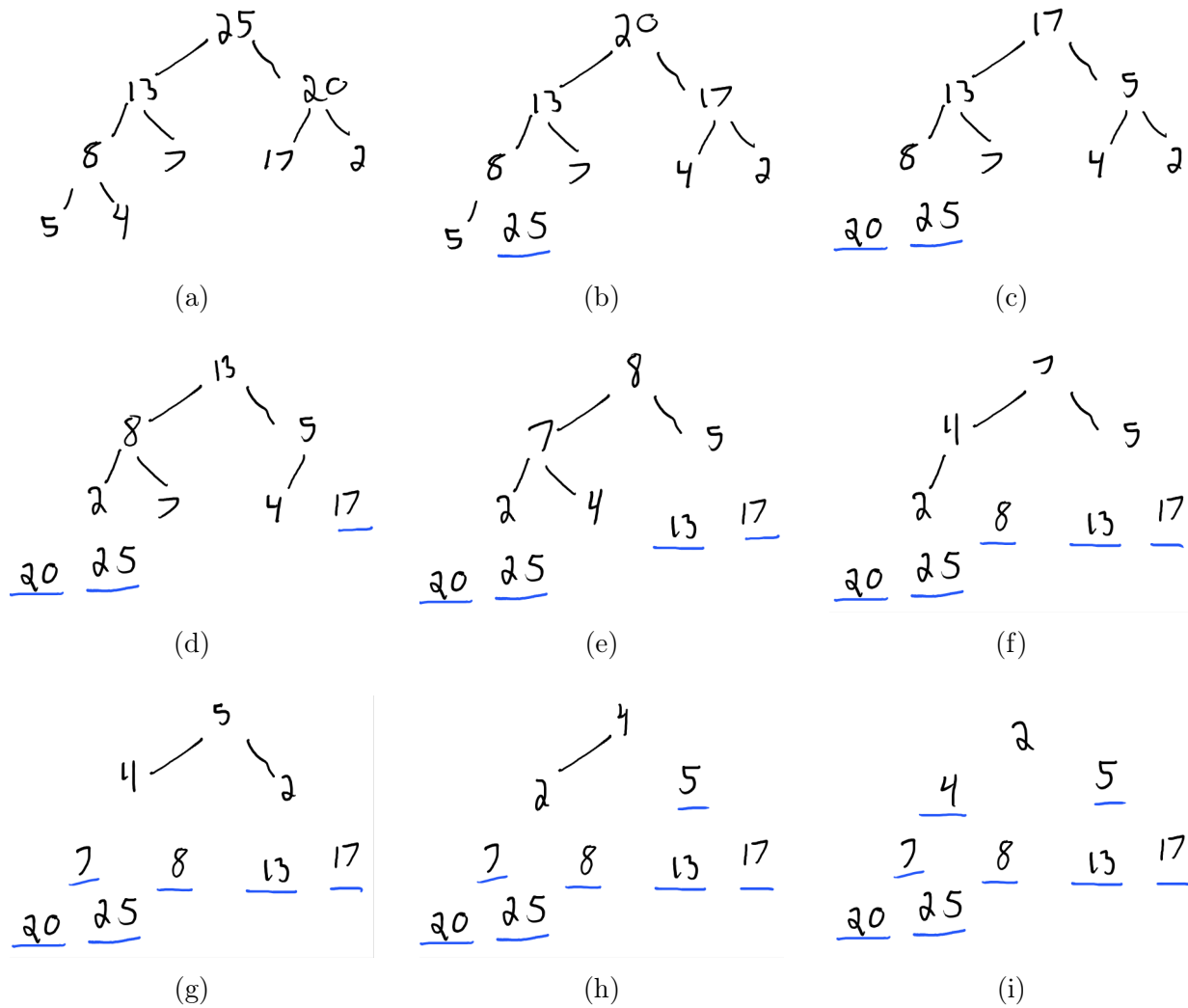


Figure 1: Progression of heap sort. Heapify steps not shown.