

# EECE.3220: Data Structures

## Key Questions

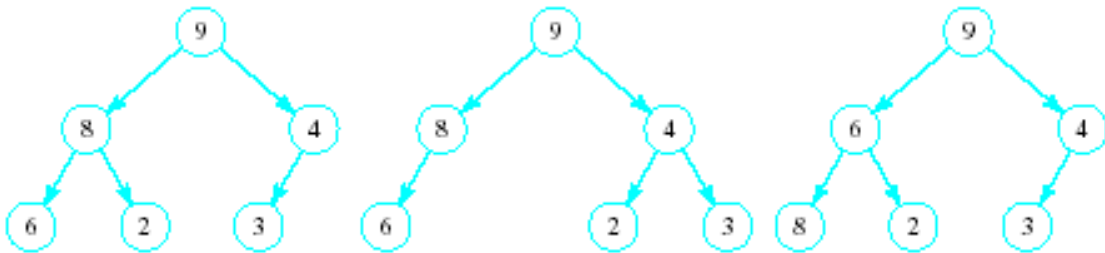
### Heaps; Heapsort (Lecture 34)

#### QUESTIONS

1. What are the properties of a heap? What is a max-heap? What is a min-heap?
2. Explain how heaps are typically stored in arrays.
3. Explain how data is added to and removed from a heap.
4. Explain the heapsort algorithm.

#### EXAMPLES

1. Which of the following figures represent valid max-heaps?



2. Use this space to show how heapsort is used to order the array: {3, 7, 2, 11, 5, 10}