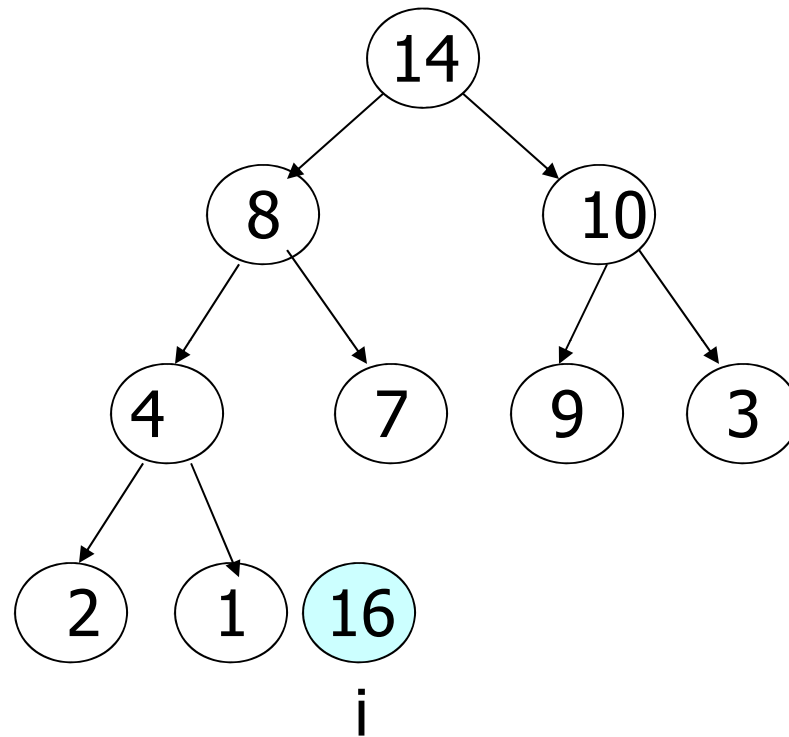
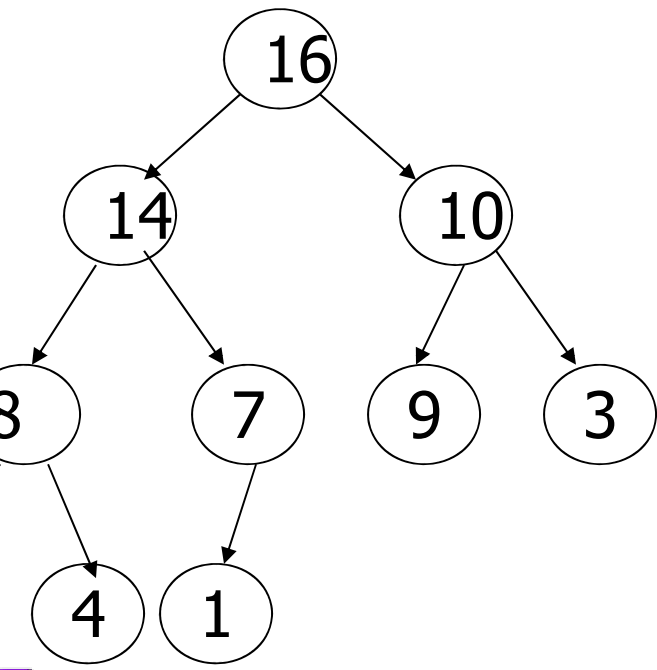


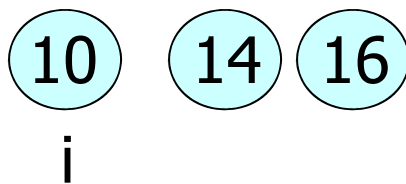
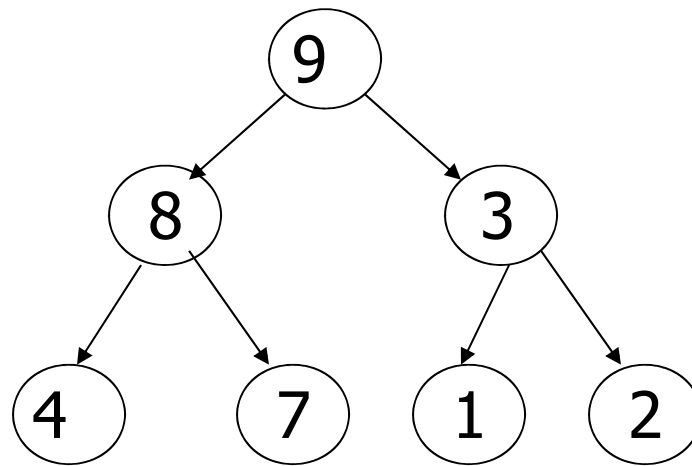
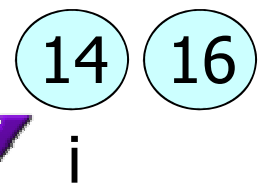
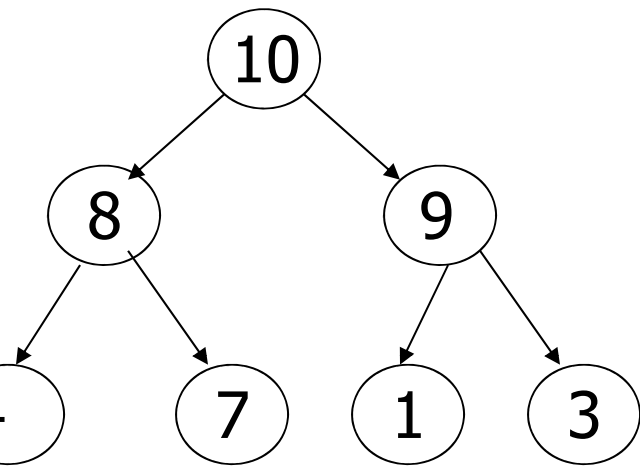
Heapsort

1. Consider array x as a complete binary tree and use the *Heapify* algorithm to convert this tree to a heap.
2. For $i = n-1$ down to 1:
 - a. Interchange $x[0]$ and $x[i]$, *thus putting the largest element in the sublist $x[0], \dots, x[i]$ at end of sublist.*
 - b. Apply the *TrickleDown* algorithm to convert the binary tree corresponding to the sublist stored in positions 0 through $i - 1$ of x .

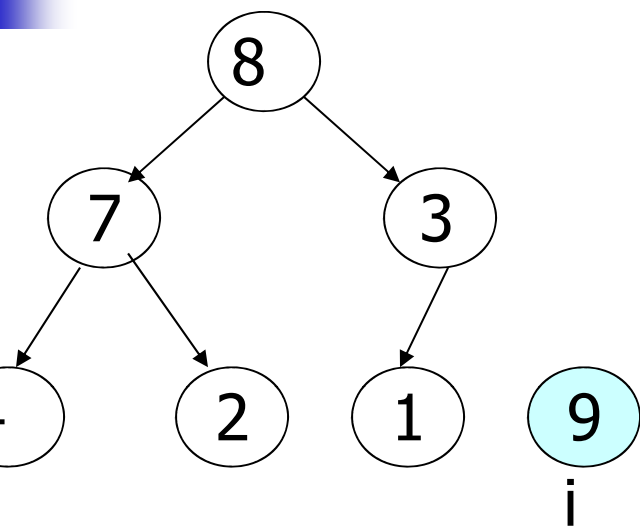
Example for HeapSort



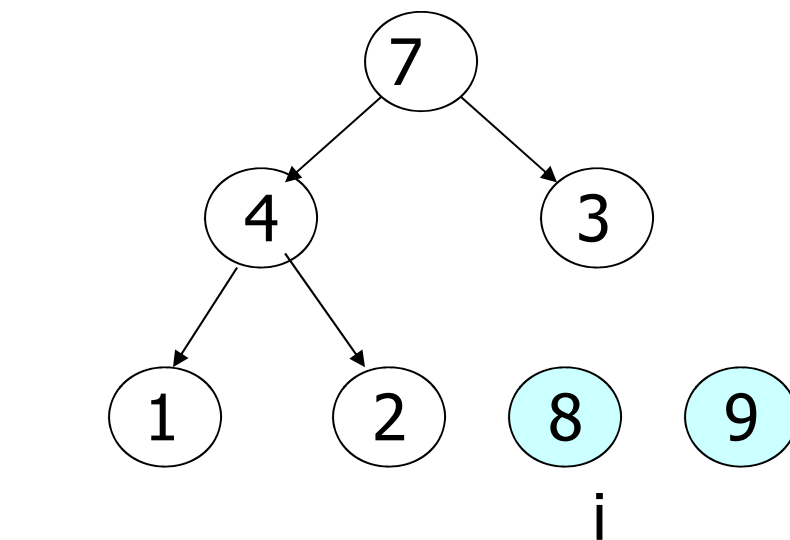
Example for HeapSort



Example for HeapSort

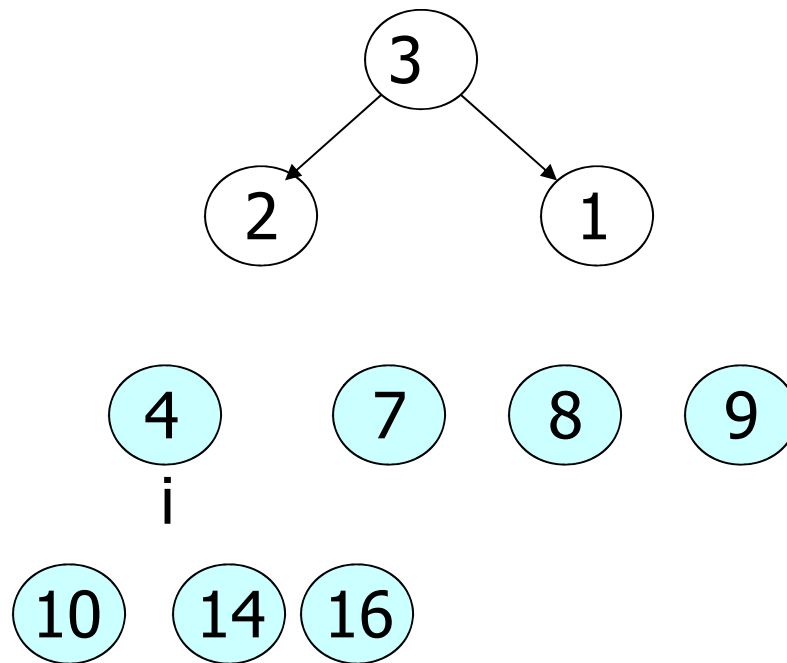
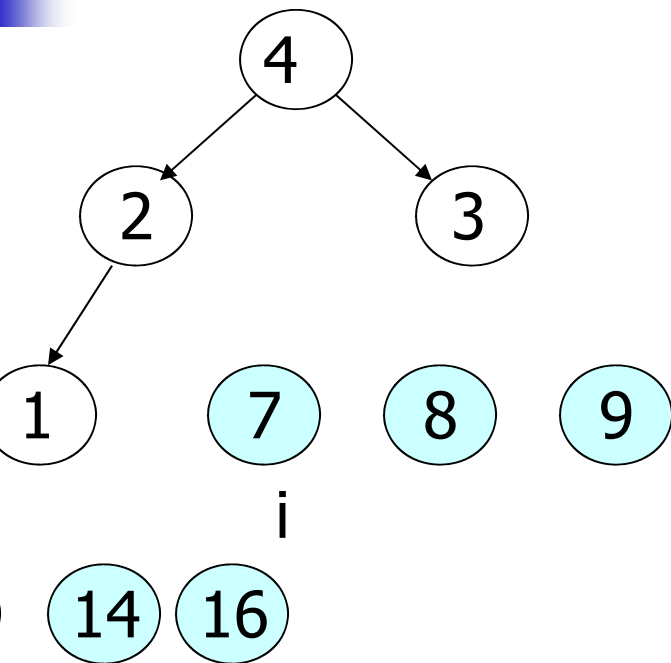


14 16



10 14 16

Example for HeapSort



Example for HeapSort

