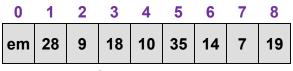
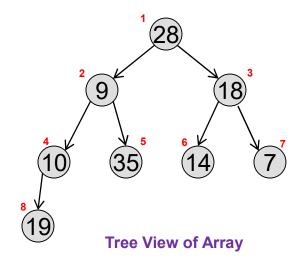


Converting An Array to a Heap

- To convert an array to a heap:
- Key idea: make heaps of subtrees and combine subtrees with new root node using heapify()
- Base case: All leaf nodes are valid heaps
- Begin combining heaps with first nonleaf node



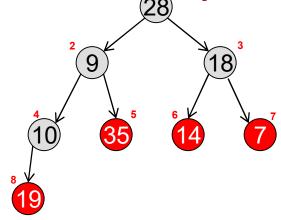
Original Array



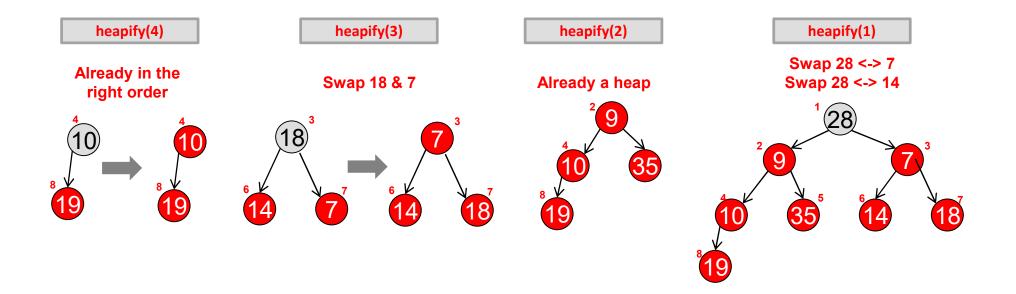


Converting An Array to a Heap

- All leaf nodes are valid heaps.
- Begin at first non-leaf node and continue to decrease location until the root, calling heapify at each location
 - Start: Heapify(Loc. 4)



Leafs are valid heaps by definition





Converting An Array to a Heap

