

Heaps

min heap: root node is the min.

Always as complete as possible (filled left to right.)

always insert top to bottom, left to right. Then promote it up the tree to the right spot.

Remove...

A heap doesn't require nodes - you can implement it in an array.

~~peek~~ peek

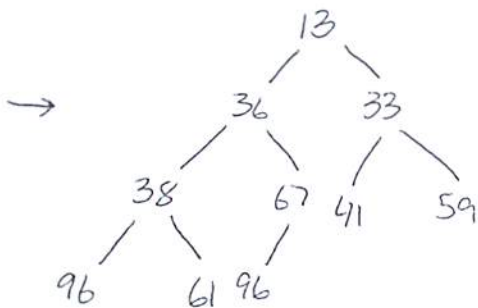
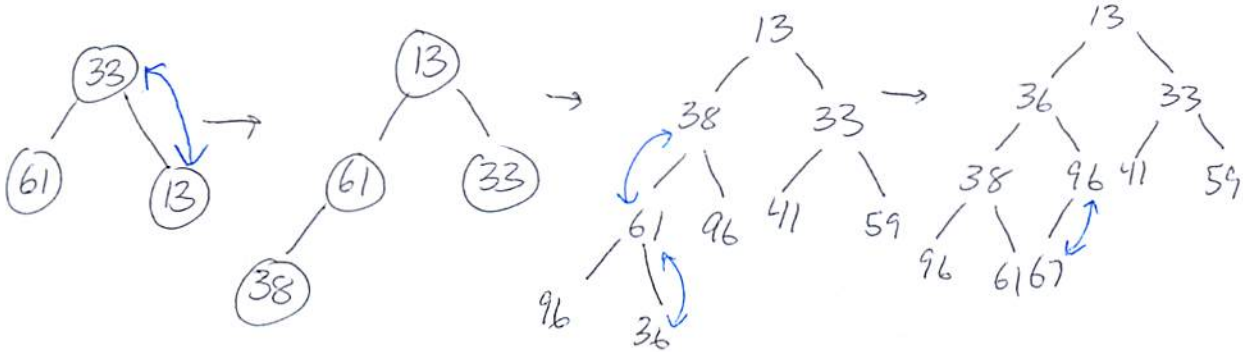
poll - remove min item.

heapifyUp or heapifyDown.

add

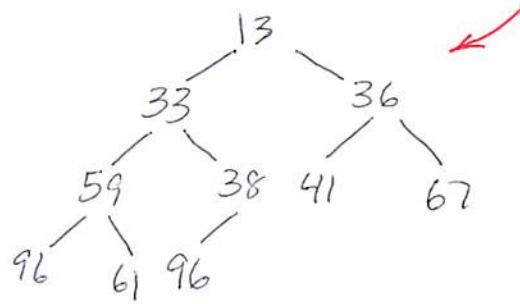
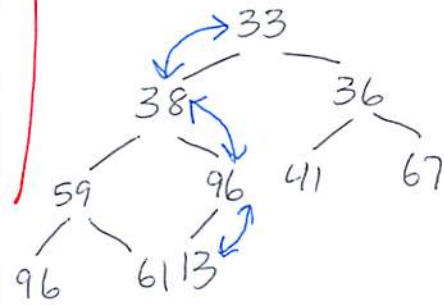
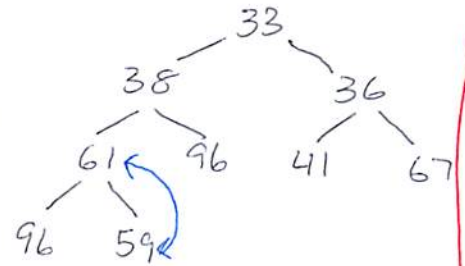
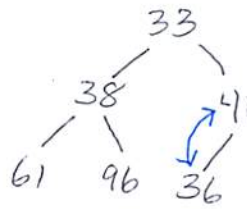
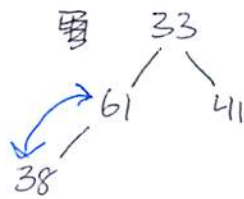
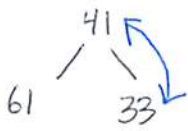
Insert then bubble up until it gets to the right spot.

33, 61, 13, 38, 96, 41, 59, 96, 36, 67.

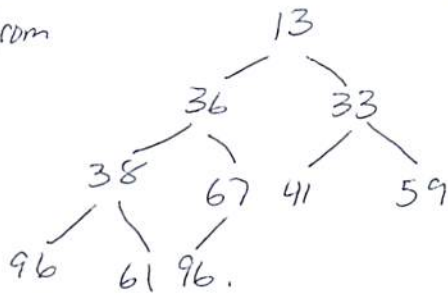


✓ 41, ✓ 61, ✓ 33, ✓ 38, ✓ 96, ✓ 36, ✓ 67, ✓ 96, ✓ 59, ✓ 13.

200721 (5)



Remove 13 from



Replace 13 with last element added.

Bubble down along smaller choice of L, R.

