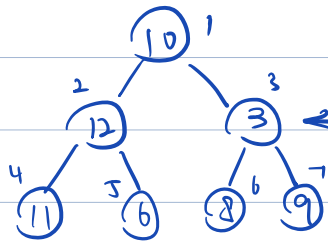


Part (a)

[10, 12, 3, 11, 6, 8, 9]

1.



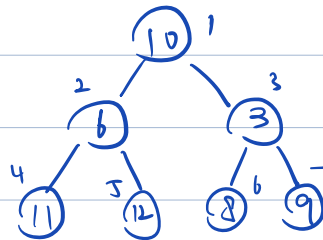
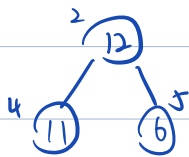
start from this

heapify (3)

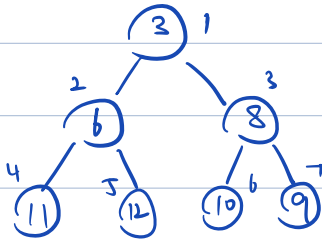


is in right order

2. heapify (2), swap 2 & 5

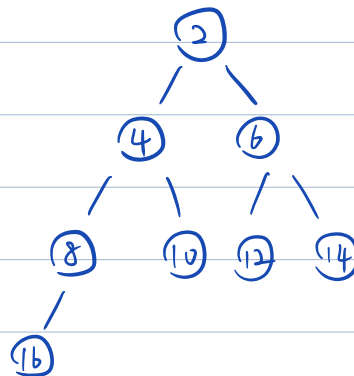


3. heapify (1), swap 1 & 3, swap 3 & 6



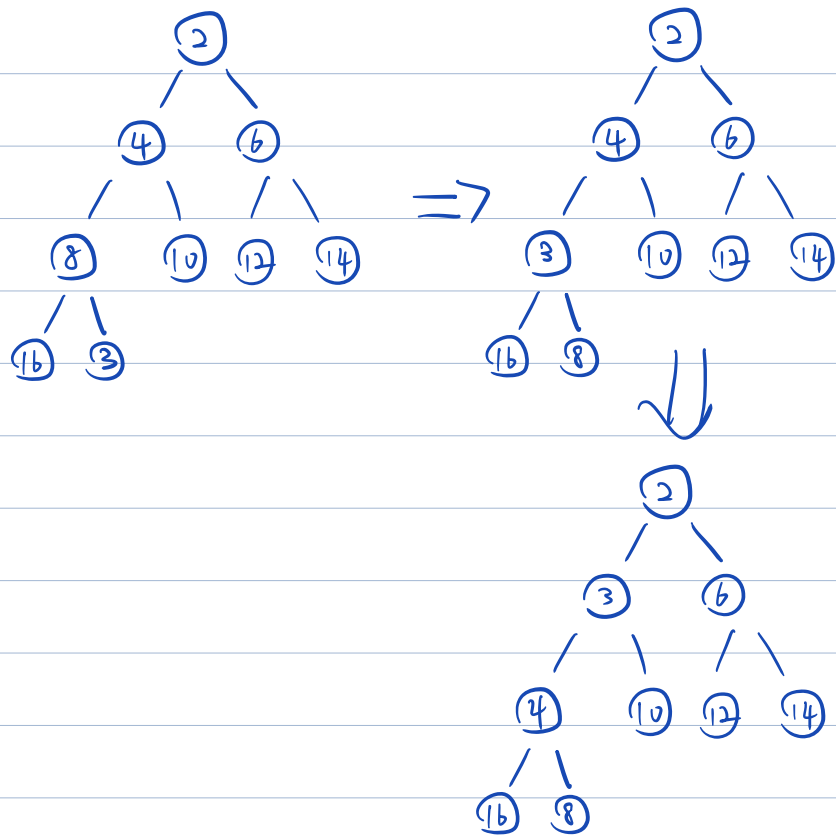
Part (b)

Initial Configuration:

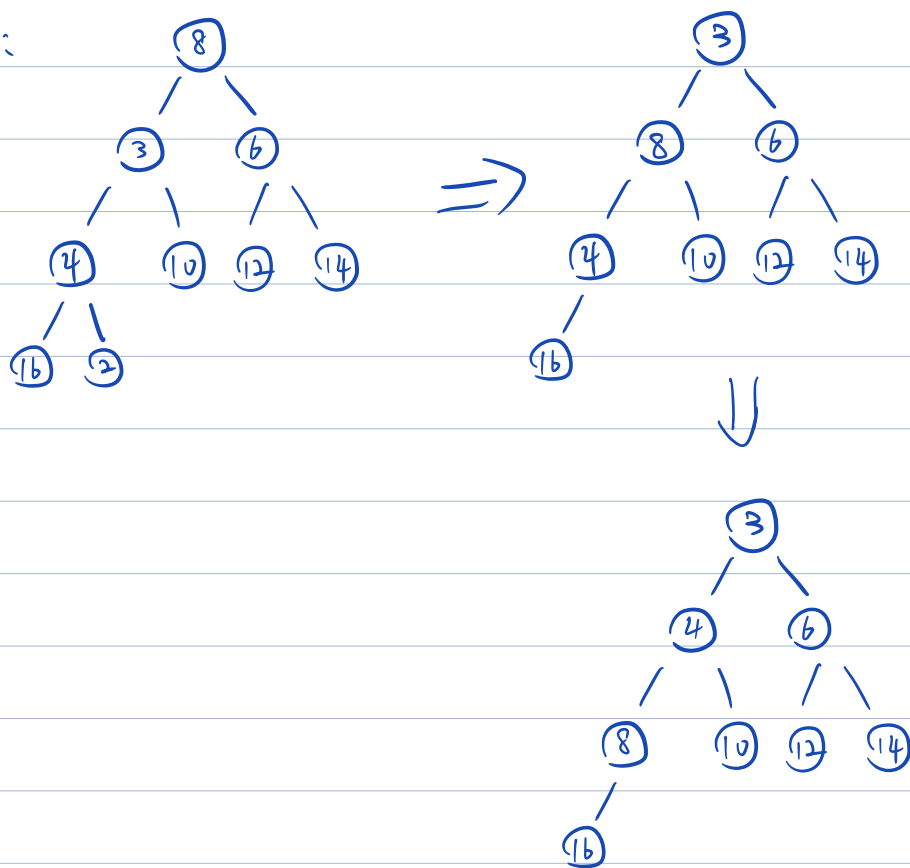


Continues on next page

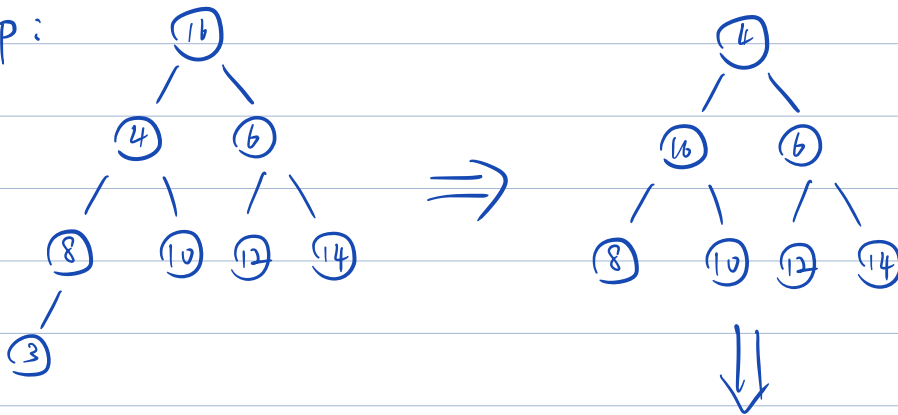
Insert 3:



Pop :



Pop:



Insert 5

