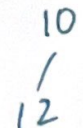
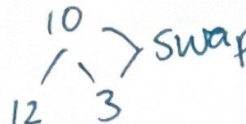
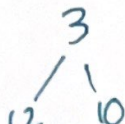


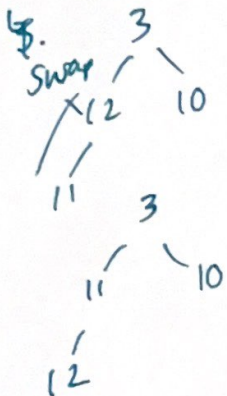
4a. heapify! 10, 12, 3, 11, 6, 8, 9

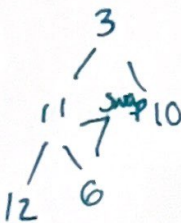
1. 10

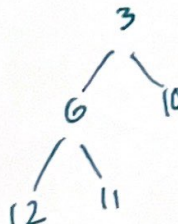
2.  ✓ OK

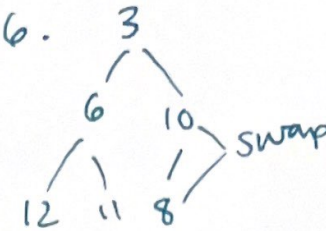
3. 

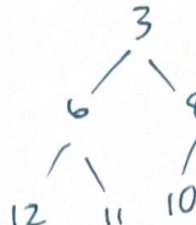


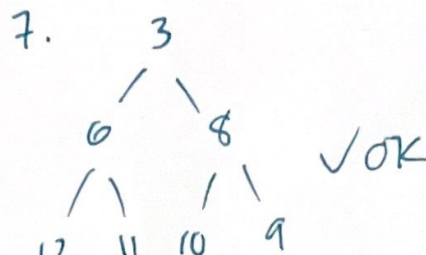
4. 

5. 



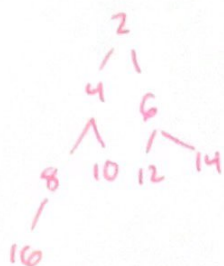
6. 



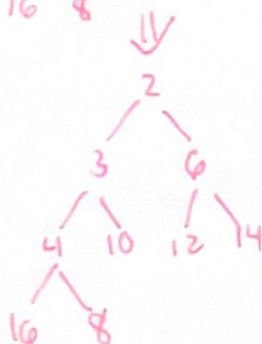
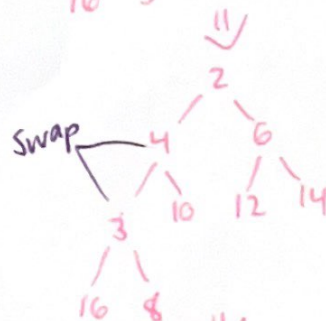
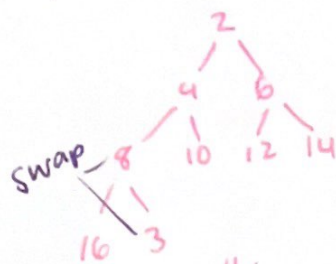
7.  ✓ OK

Part 4b:

1. Initial configuration: 2, 4, 6, 8, 10, 12, 14, 16

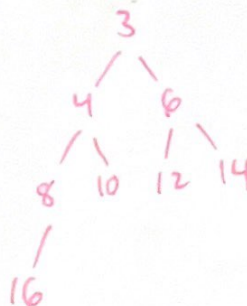
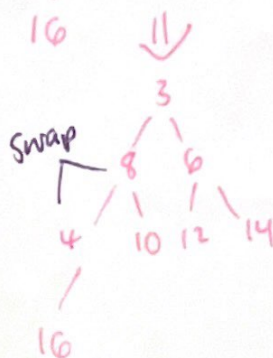
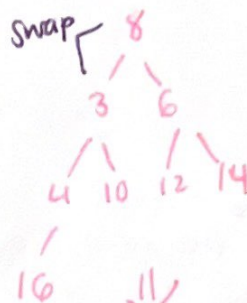


2. insert 3 - trickle up



3. pop top (2)

replace 2 with 8 (last leaf)

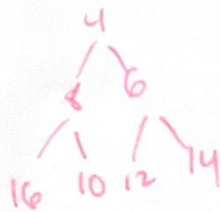
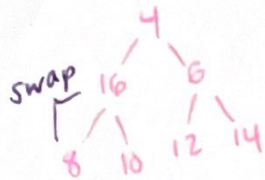
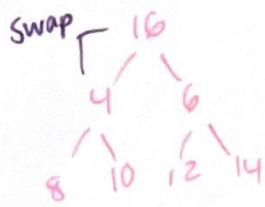




Part 4b cont'd

4. pop top (3)

replace 3 with 16



5. insert 5

