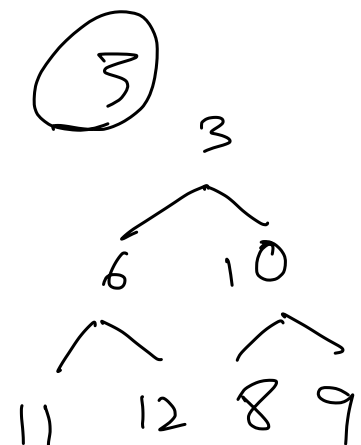
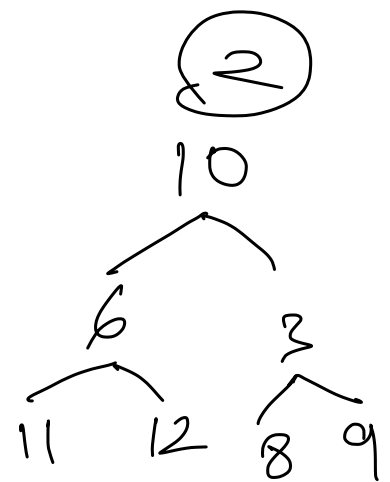
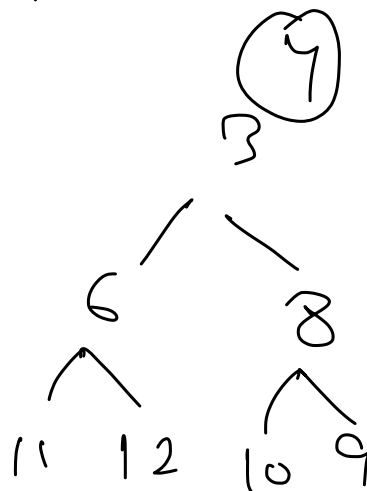
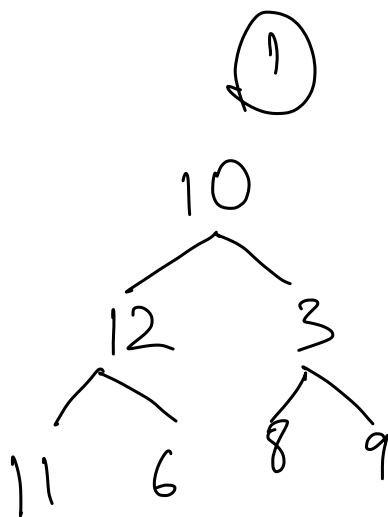
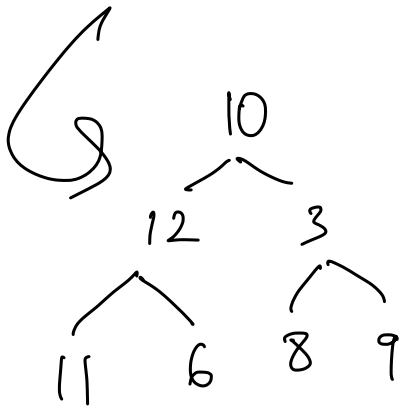


Problem - 1

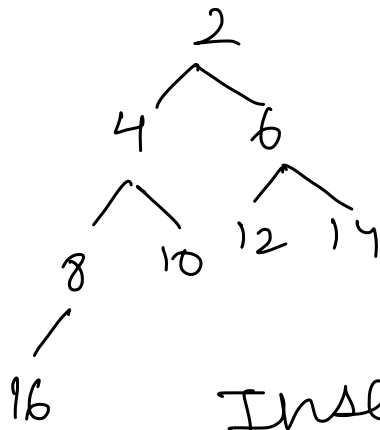
Part (a)

[10, 12, 3, 11, 6, 8, 9]
0 1 2 3 4 5 6

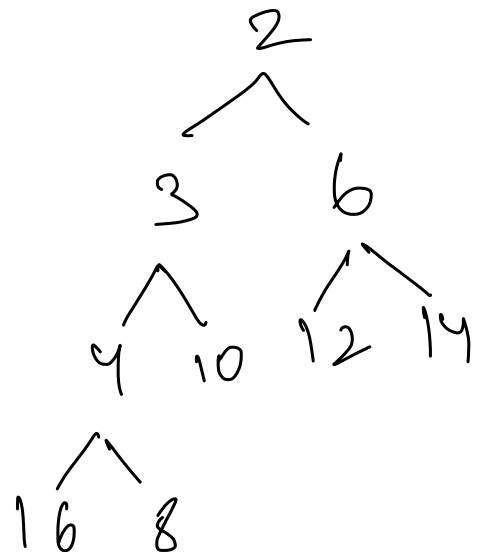
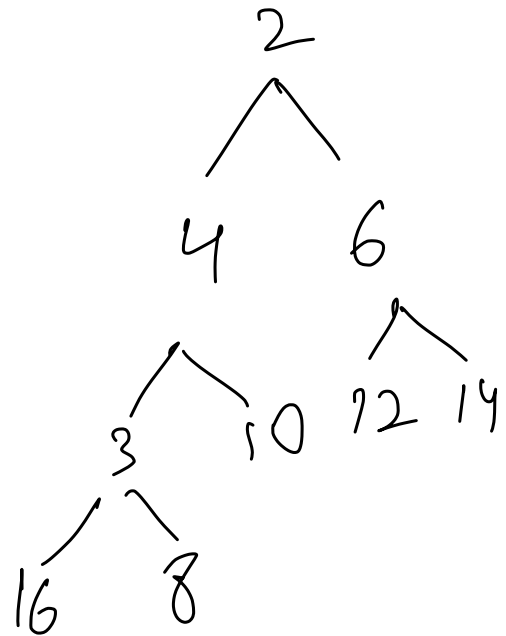
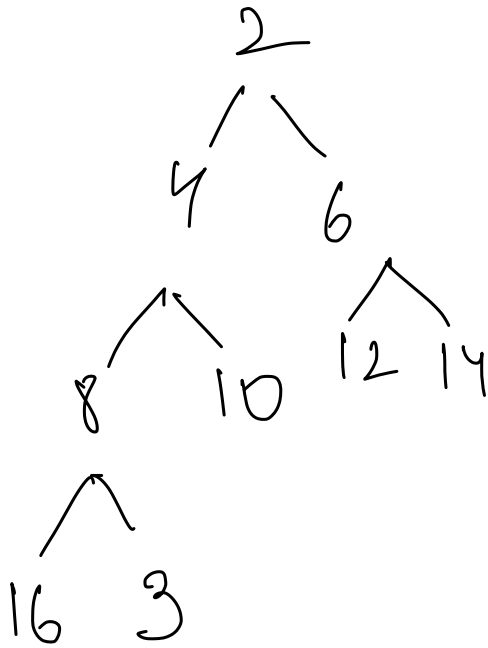


Part (b)

^{0 1 2 3 4 5 6 7}
[2, 4, 6, 8, 10, 12, 14, 16]

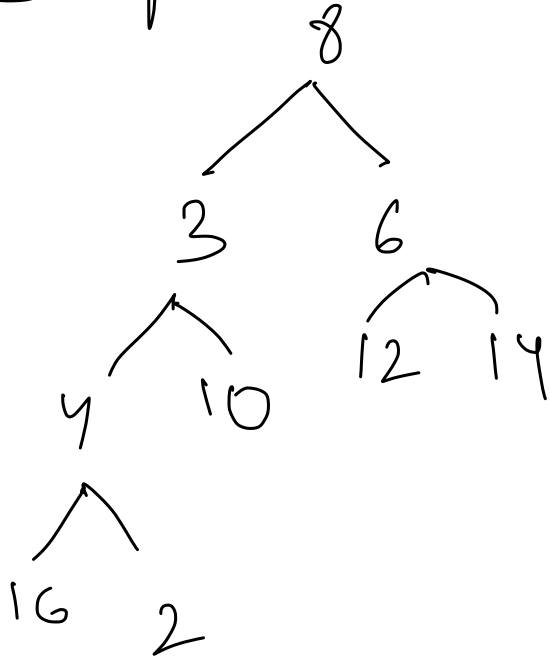


Insert 3



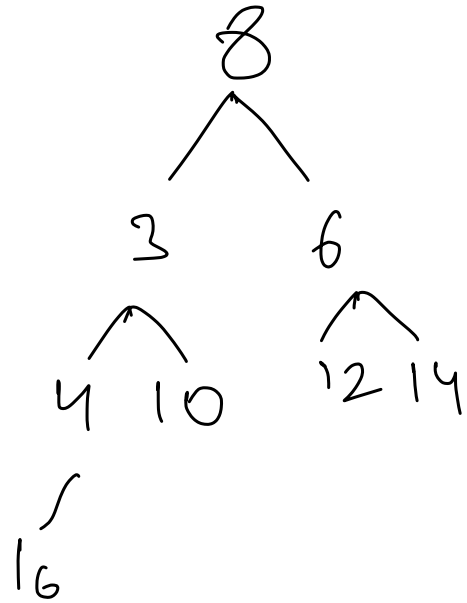
Pop Top Element

Swap(2 & 8)



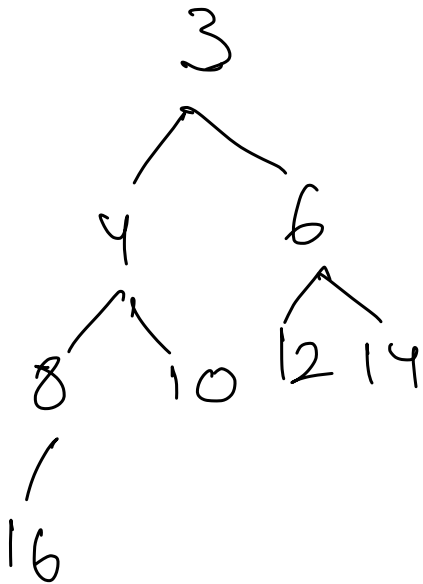
→

Removed 2

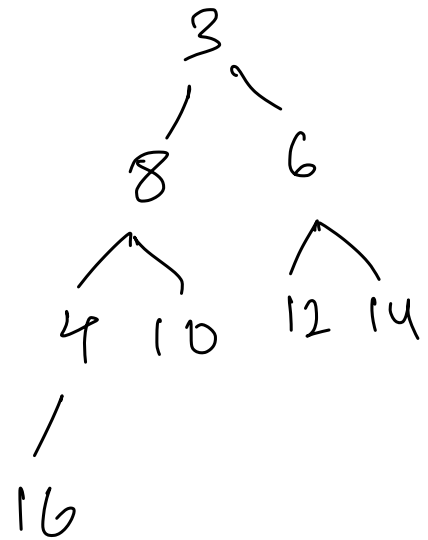


Trickling Down

↓

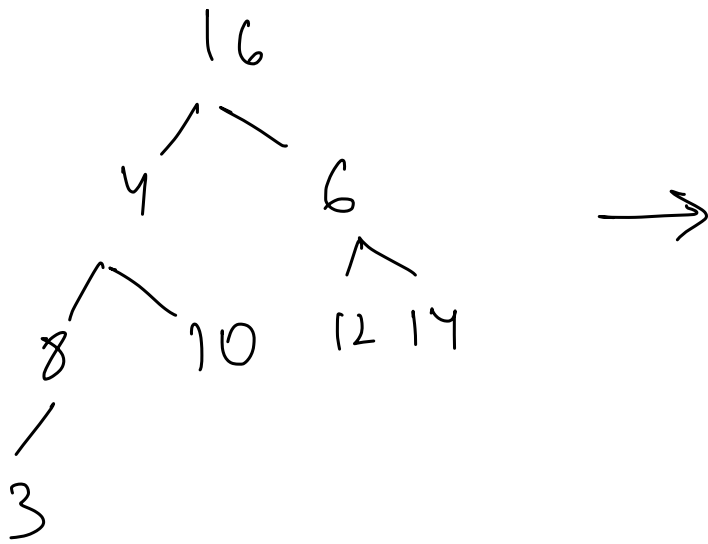


←

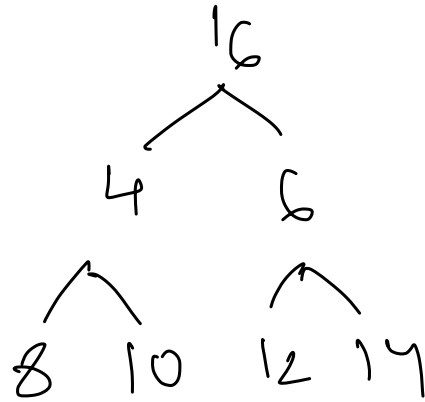


Pop Top Element

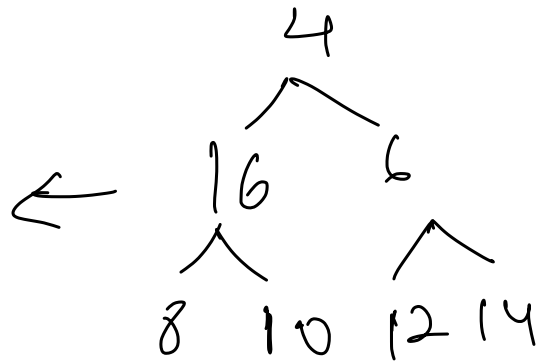
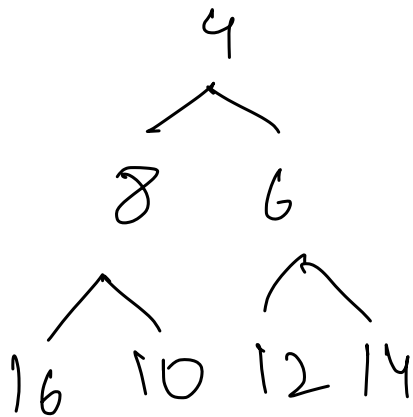
Swap (3 & 16)



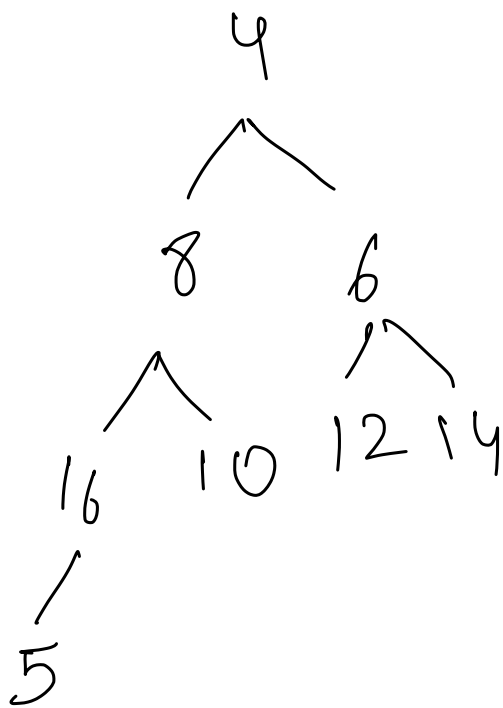
Remove(3)



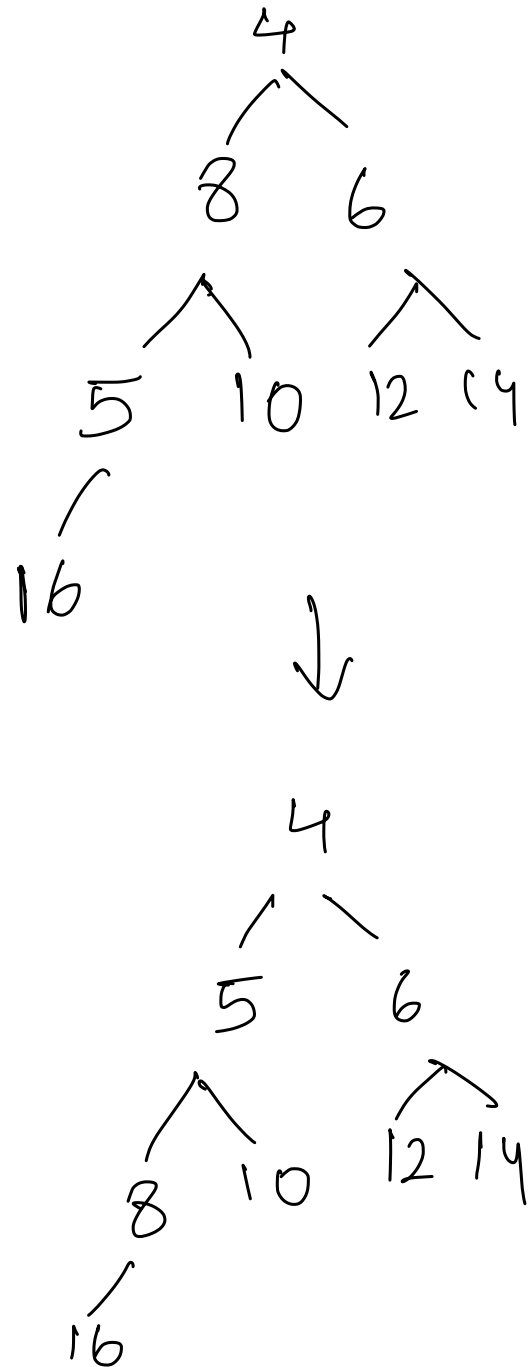
Trickling Down



Insert (5)



Trickle Up
→



On Next Page I have visual representation of Problem-2, however the answer is also given in q2.txt.

Problem-2 A* Algorithm Tracing

