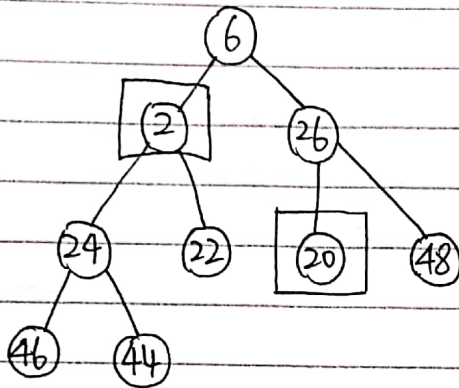


Part (a)

1) [6, 2, 26, 24, 22, 20, 48, 46, 44]

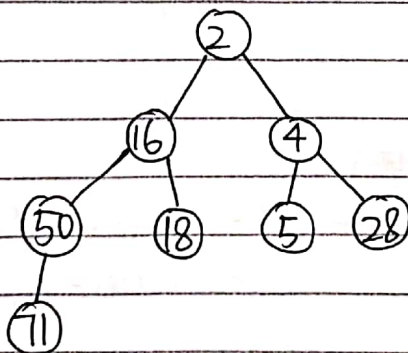
This array is not valid binary Min Heap



The child with value 2 and the child with value 20 violate the heap property

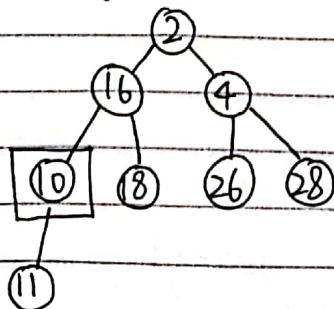
2) [2, 16, 4, 50, 18, 5, 28, 71]

This array is valid binary Min Heap



3) [2, 16, 4, 10, 18, 26, 28, 11]

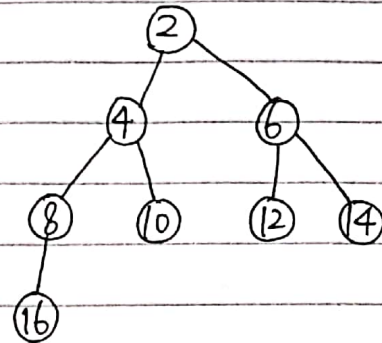
This array is not valid binary Min Heap



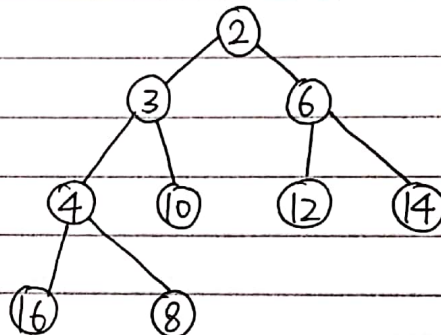
The child with value 10 violate the heap property

Part (b)

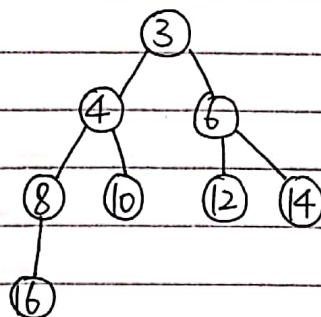
(1) Initial Configuration



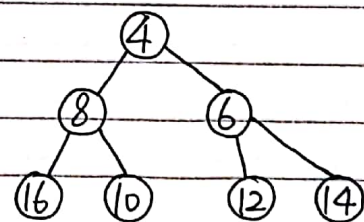
(2) Insert 3



(3) Pop



(4) Pop



(5) Insert 5

