b) Steps: First Find MM of right subtree:

-> 29. Then replace root node with

this minimum, after delete the

value used to replace and put

its successor in its place

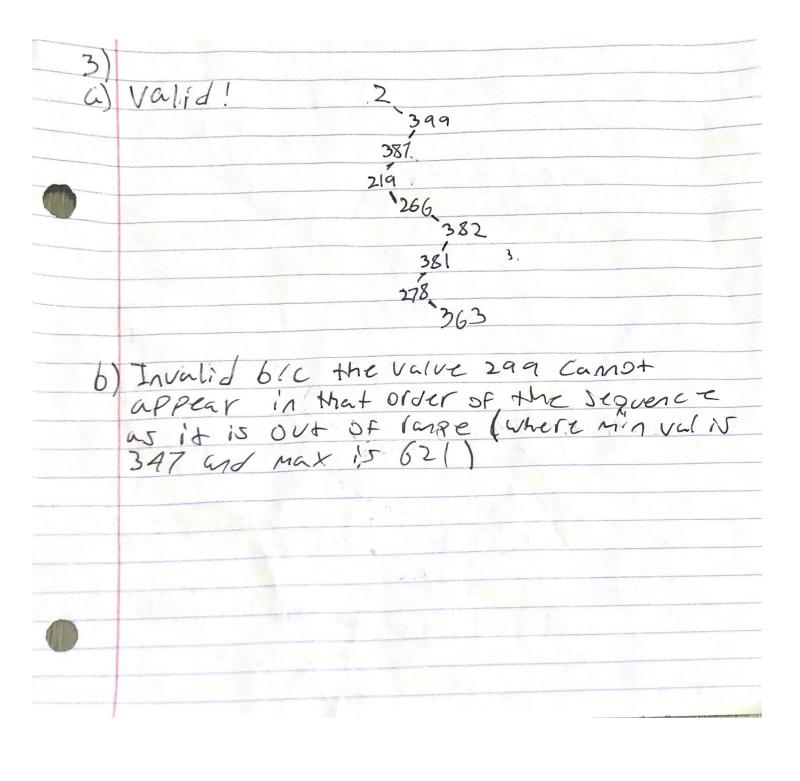
20-> 29, 29-> 30 34,20,42,8,29,40,43,7,12,30

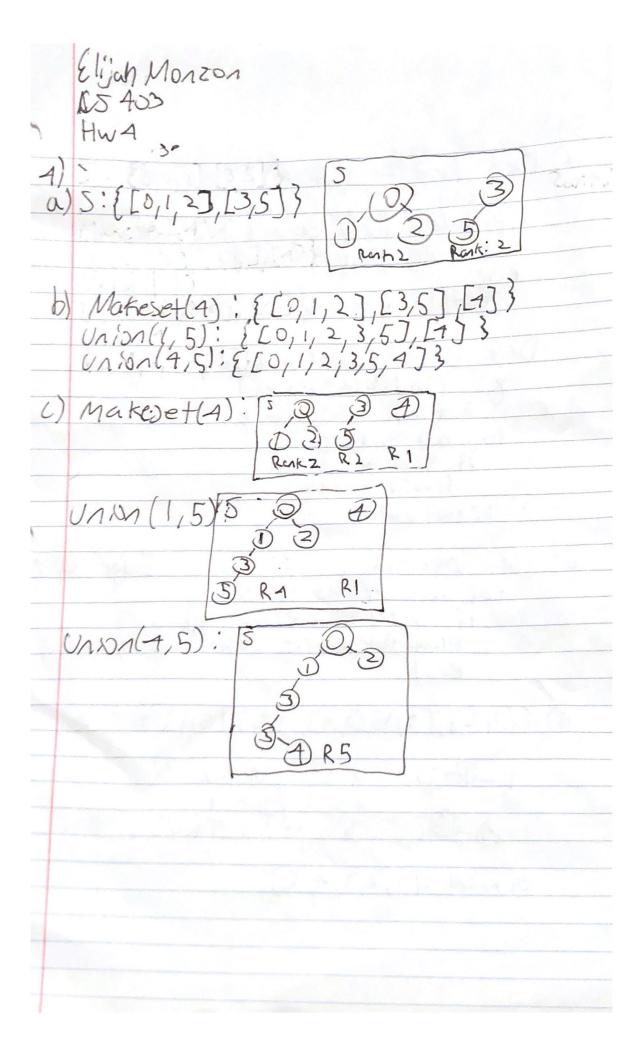
2)
a) Yes because the predececuss
b) simays greater

b) 29

if M. Left Children > n. Right Children: temp = n. Parent N. Paient = temp. Parent n = temp else

N= 1.Successor





```
Des find Children (6, K)
Fo(all Children in K;
                               // Finds loves + level
       if child[i] has children:
Yetun Find Children (G, child[i])
        else if Child[i] equals K!
          return childlij
       else add childlig to fand Children allay
     retun foundChildren
5)
a) Def find Parentl6, K)
      Parent = G[K], Parent
      if parent, key equals K
        return parent
      else
        retuin find (6, parent, key)
    Def Detect Cycle (6, a, b):

x = find parent(6, a)

y = find (hildren (6, b)
       for all 4: 1, 4:
           resum true
        retun false
                                        Edge: U,V
 6) Def Main (6).
       For all edges in Gi
          if DerectCycle(G, U, V)
           PILAT the Cycle containing u; and V;
           en
 c) {[1,2],[2,3],[5,4],[4,5,],[5,1]}
     OUTPUT: [1,2,3,4,5]
```

