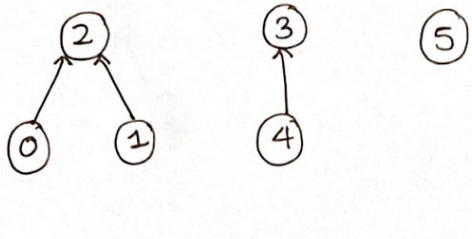
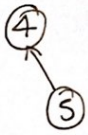
Assignment 08.

Q1)

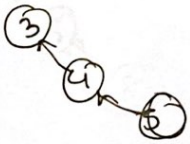


Q2)

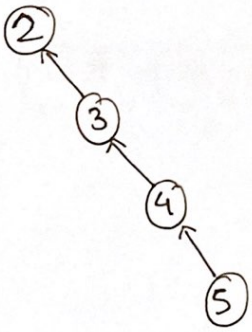
union (4,5)



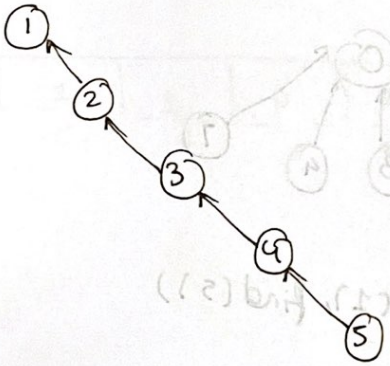
union (3,4)



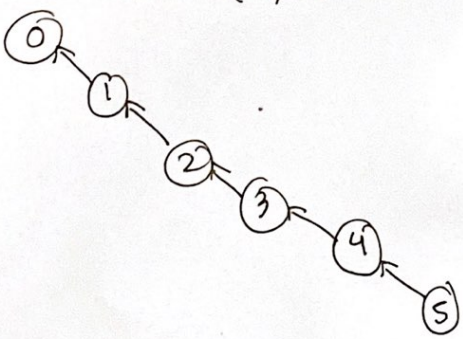
union (2,3)



union (1,2)



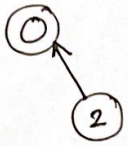
union (0,1)



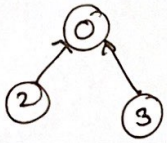
The running time to find (5) is O(N)

Q3)

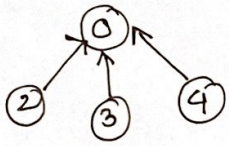
union(find(0), find(2))



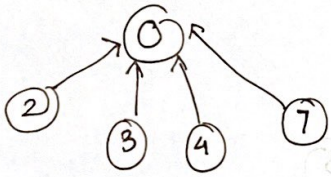
union (find(0), find(3))



union(find(0), find(4))



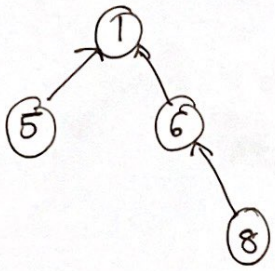
union(find(6), find(7)



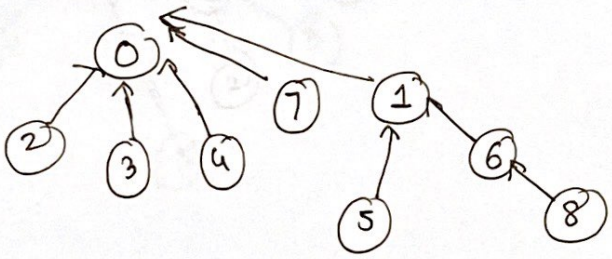
union(find(1), find(5))

union(find(6), find(8))

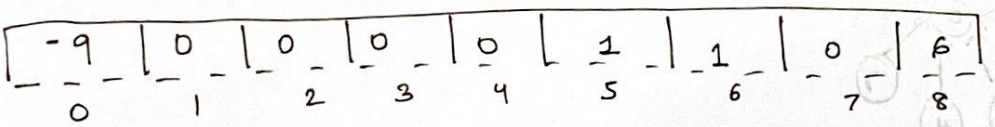
union(find(5), find(8))



union(find(7), find(8))

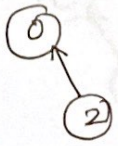


Q4)

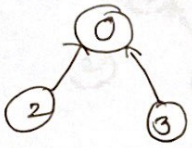


Q5)

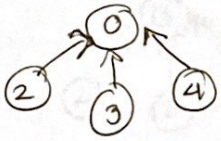
union (find(0), find(2))



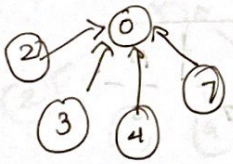
union (find(0), find(3))



union (find(0), find(4))

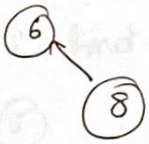


union (find(0), find(7))

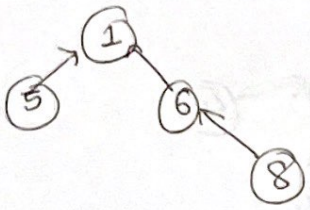


union (find(1), find(5))

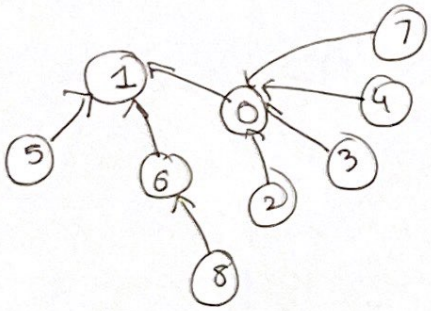
union (find(0), find(8))



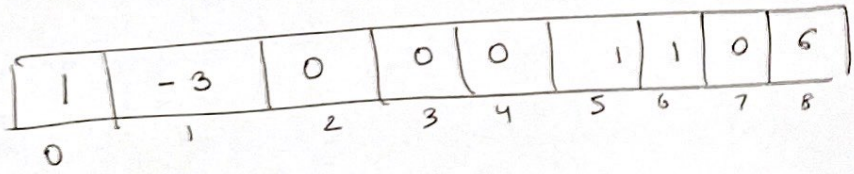
union find (5), find (8)



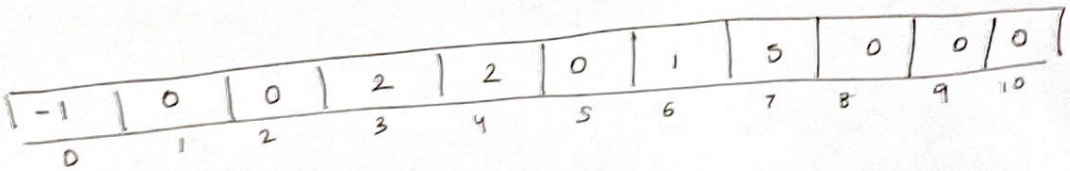
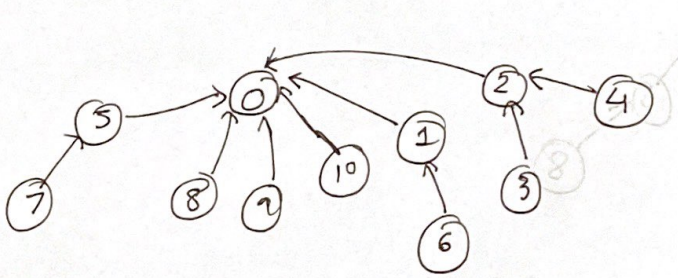
union (find (7), find (8)



Q6)



Q7)



Q8)