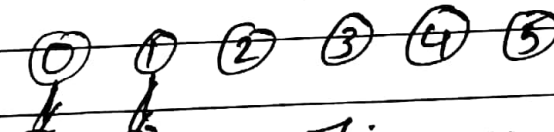
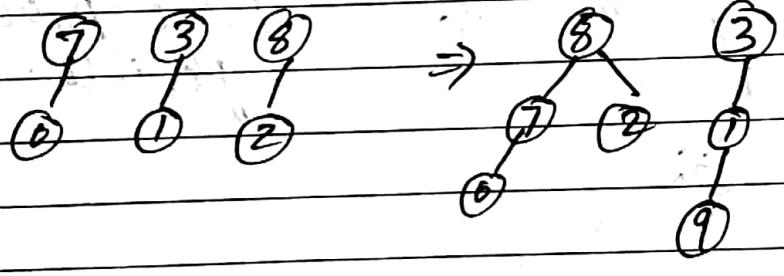
Assignment - 2

1) id[i] = 0 1 2 3 4 5 6 7 8 9
i = 0 1 2 3 4 5 6 7 8 9



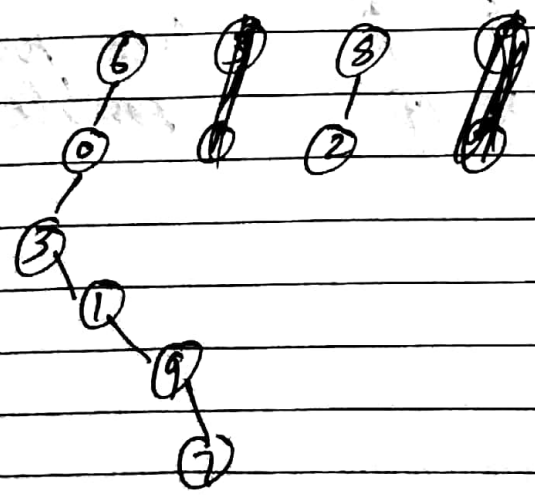
⇒ This ones follows the weighted quick union with path compression.

2) id[i] = 7 3 8 3 4 5 6 8 8 1
i = 0 1 2 3 4 5 6 7 8 9



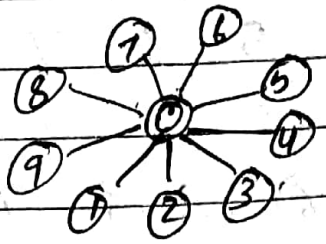
* This one doesn't follow path compression.

3) id[i] = 6 3 8 0 4 5 6 9 8 1
i = 0 1 2 3 4 5 6 7 8 9



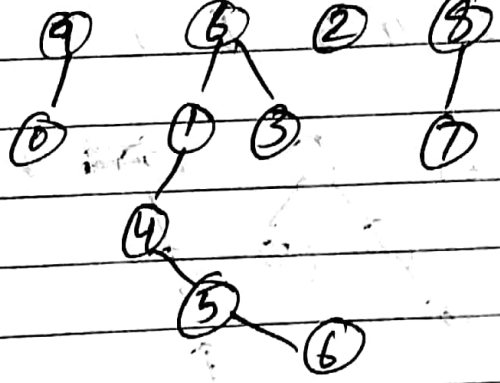
∴ Not a compressed path.

4) id[i] = 0 0 0 0 0 0 0 0 0 0
i = 0 1 2 3 4 5 6 7 8 9



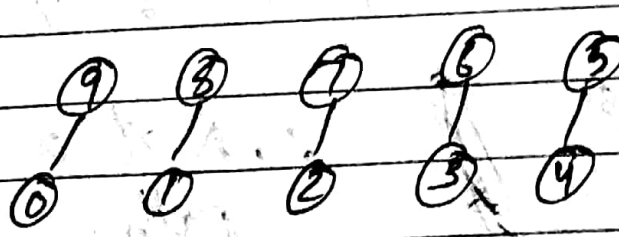
=> This follows path compression.

5) id[i] = 9 6 2 6 1 4 5 8 8 9
i = 0 1 2 3 4 5 6 7 8 9



Tree Not possible.

6) id[i] = 9 8 7 6 5 4 3 2 1 0
i = 0 1 2 3 4 5 6 7 8 9



Tree Not possible.