4- Grouping

I used list to store groups and users

Compare function takes the new_node and the node

 $0 \; means \; new_node \; equals \; node \\$

-1 means new node less than existing node $\,$

 $1\ means\ new\ node\ greater\ than\ existing\ node$

<u>Time Complexity = Space Complexity</u>

 $O(n) \rightarrow n$ is the number of groups and users