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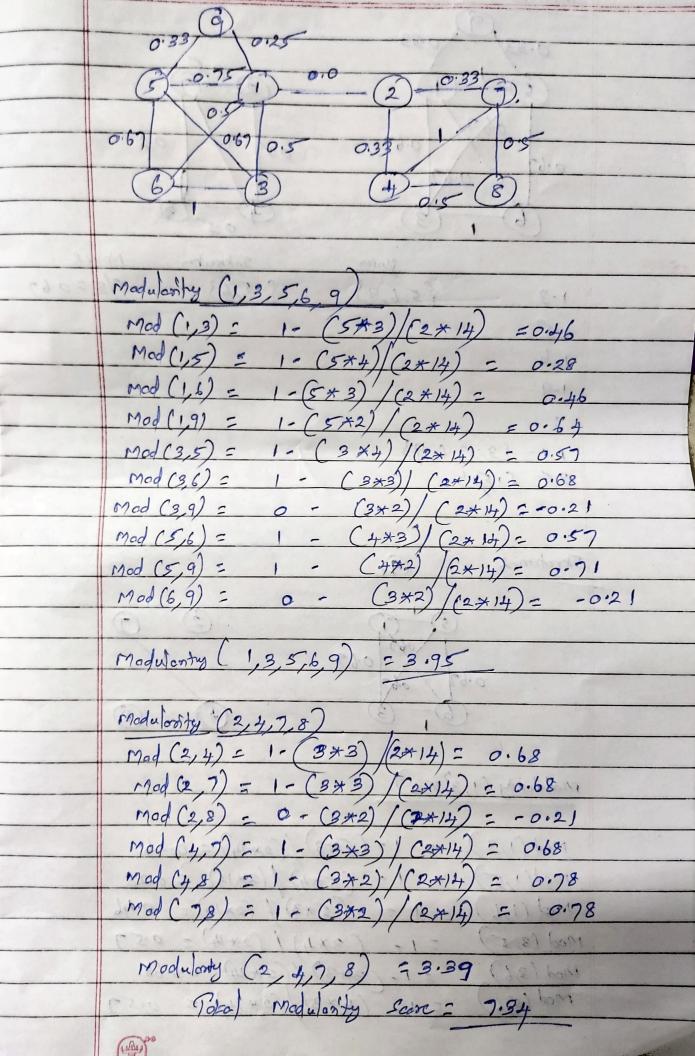
Neighborhood overlap bond approach (NOVER) Neighbos hard = number of nades who are neighbors of number of nodes who are neighbour of ableast one of A or B. Note one should not count neither A nor B as part of the neighbors is the denominator 4 each node should be counted only once. Example 67 {1,3,5} 1 -> {2,3,5,6,9} 7/2,83 2 -> {1,4,7} 87 £4,73 3-> 41,5,63 4 -> {2,7,8} 9-> {1,5} 5-1 21,3,6,93 Union of Neighb. NOVER Edge Inkosecu-13,5,6, 9,4,7} 0/6=0.0 1-2 {} 24=0.5 1-3 {2,5,6,9} 65,63 82,3,6,93 1-5 83,6,93 3/4: 0.75 1-6 83,53 2/4 = 0:5 {2,3,5,6} 353 1/4= 0.25 1-9 {1,7,8} 573 1/3 = 0.33 2-4 843 21,4,83 1/3 = 0.33 2-7

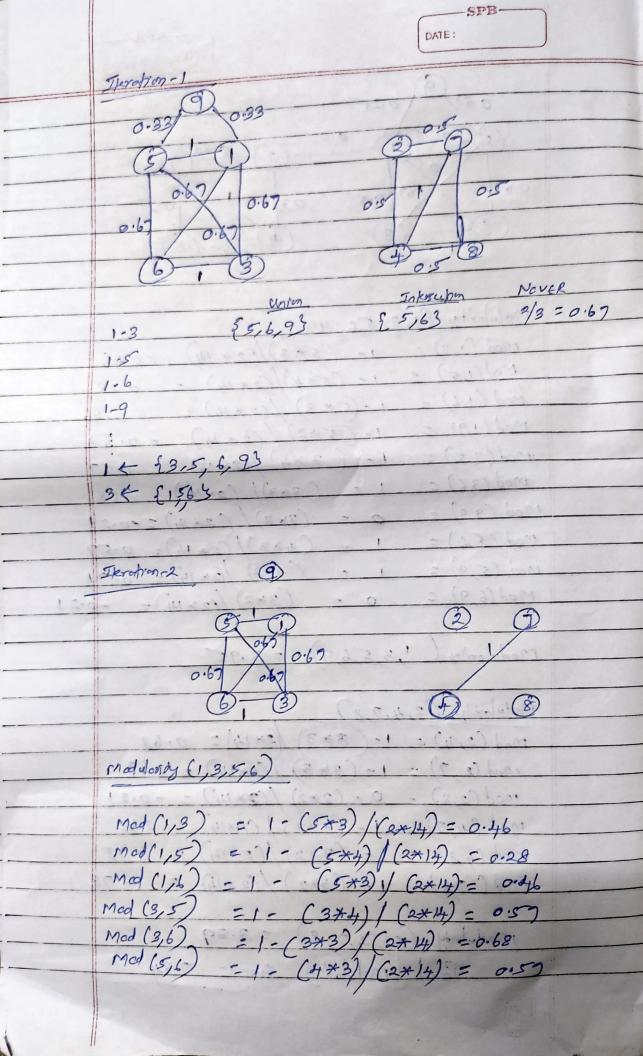
NOVER Inkorea. Union of Neighb. 2/3 = 0.67 Edge 21,63 51,6,9} 2/2 = 1-0 3-5 51,53 81,53 2/2=1.0 \$2,83 £73 £1,33 £13 3-6 82,83 1/2 = 0.5 4-7 {2,73 2/3 = 0.67 4-8 £1,3,93 1/3 =0.33 5.6 £13,63 1/2 20:5 5.9 243 8243 7-8 Nover bosed 61N agosthron He he beginning of each steration, we compute the NOVER Score of the edges in the graph of yernove the edges with the smallest NOVER.

Score. - If more than one edge has the smallest NOVER score remove all such competing edgy at the some time. - It the graph gets disconnected to two or more communities (component) we compute the * Report the steration until there are no more edgy.

* The postition (set of Commercial) with the potal modularity score is the grand.

* Josephin.





Moduloity (1,3,5,6) =3.02 Modulosity (4,9) model (4,7) = 1-(3×3) /(2×14) =0.68 Modulosty (4,7) = 0.68 Total Modulosty Sease = 3.70