TARJAN'S Algorithm

It is used to find ordiculation foint in a graph.

1) find DES of Good assign discourry number to every werter.

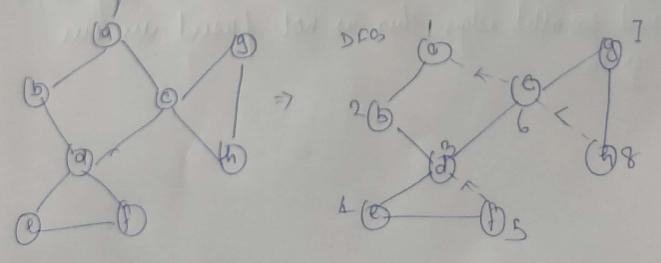
2) find low() nature for every werder.

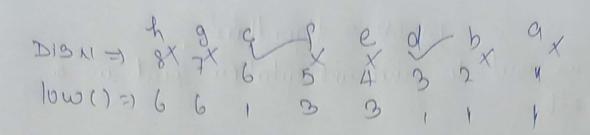
Low() is the lowerst discourse that can be reached from a vertex by taking one back edge.

of Dis N(4) & low(v) u -> parend v-> child

Some writers can be exempted from the above check of they realisty any of the following condition 1) If the roof has only I child.

27 doof verlier can lu auxided





2) for(K=1; K<m; K++)

for Lizi; ixn; 1++)

for Lizi; ixn; 1++)

A Ei, j J = min [ A Li, j J, A Li, x J + A [ x, j ] }

3/ep-2 first of all me will remove all the only loops and parallel edges. This is not present in bur graph.

8tep-8 initial distance mabrin

3) (1) Dynamic programming: This method quarantees do find the head anguer for TSP. However, its 3) Strategies for solving travelling sales man problem; i) Natur bolution 1) Consider city tas the starting and ending poin 2) Generale all (m-1) permutation of cities 3) Calculate cost of luvry permutation and keys track of minimum cost permutation. 4) Pelwin the permutation with minimum cost. ii) Dynamie programming 5: Subset of the graph which is not yet traverse dist (i,1): distance from i to1. of size of sis 2, then 9 must by {1,13, C(9,1): dist (1,1) Else if Size of B is greatly than 2 c(s,i)=min gc(9-213,1)+dis(i1)) where and it relongs to Sij 1=1'

iii) Back tracking. Consider eity 1 Last say oth node ) as the starting and ending point. Since route is cyclic, we can consider any point as starting point. Stord traversing from the source to its adjust hodes in dfs manny. Calculate cost of every traversal and keep track of minimum cost and keep on excluting values of minimum cost stored value. Permutation with minimum cost