

: Do Column Preduction Cy reduced by 1

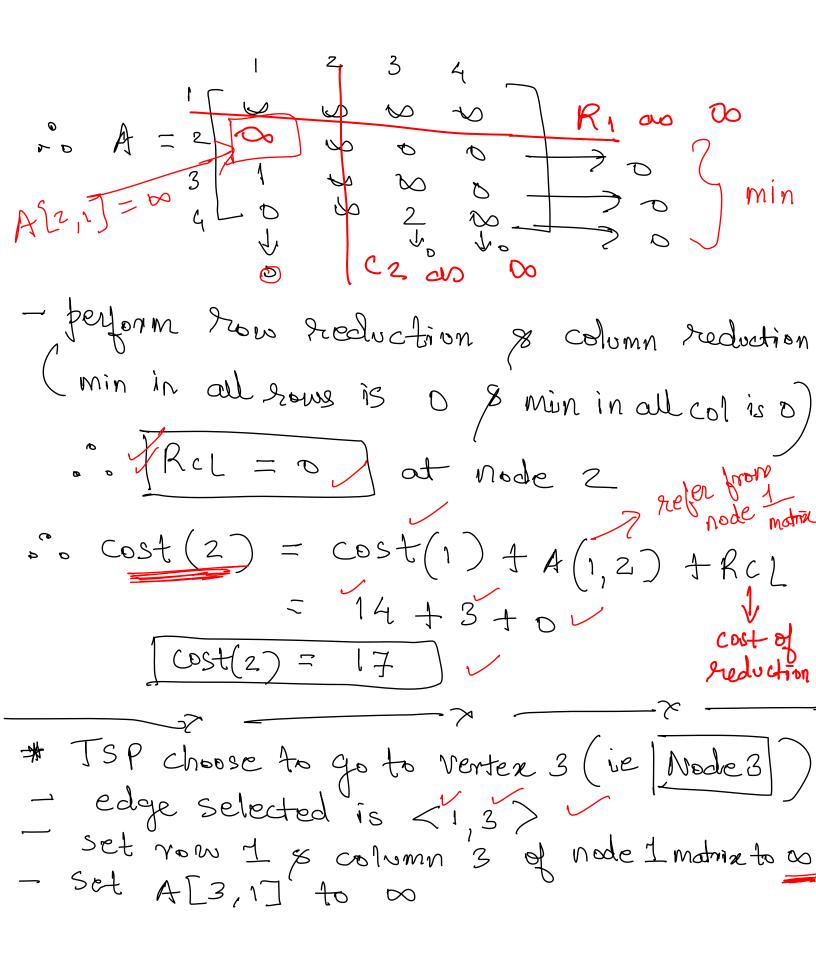
CH reduced by 1

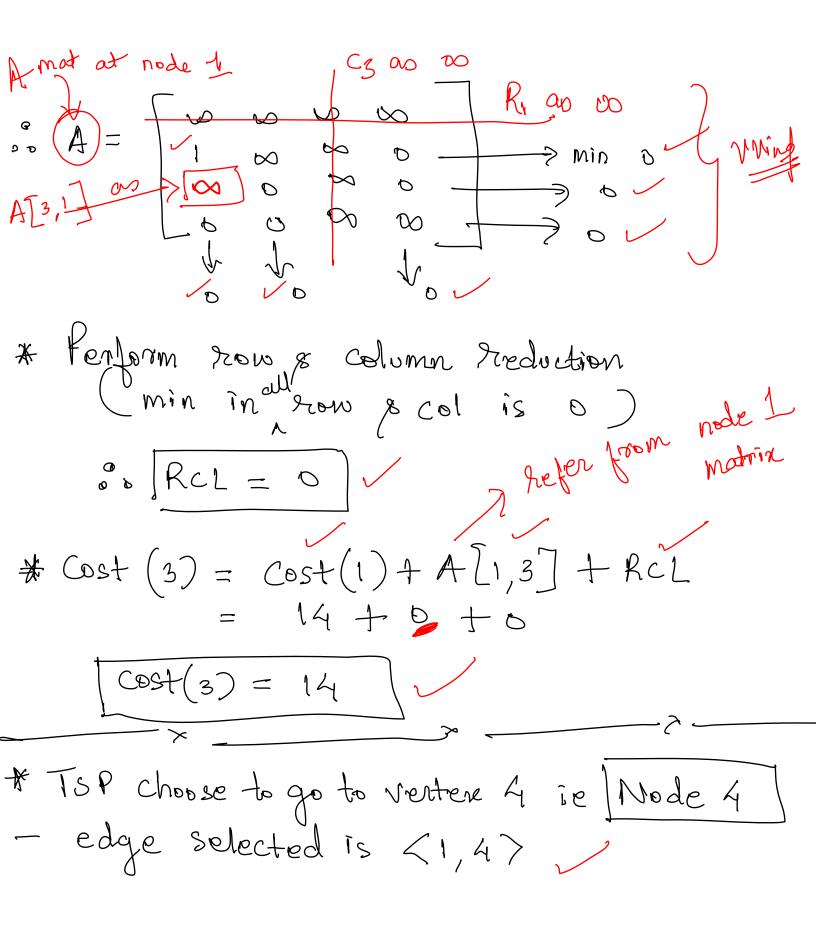
1 2 3 4 Mode 1 matrice A= 1 0 0 0 Cost (1)

Treduced matrix at node 1

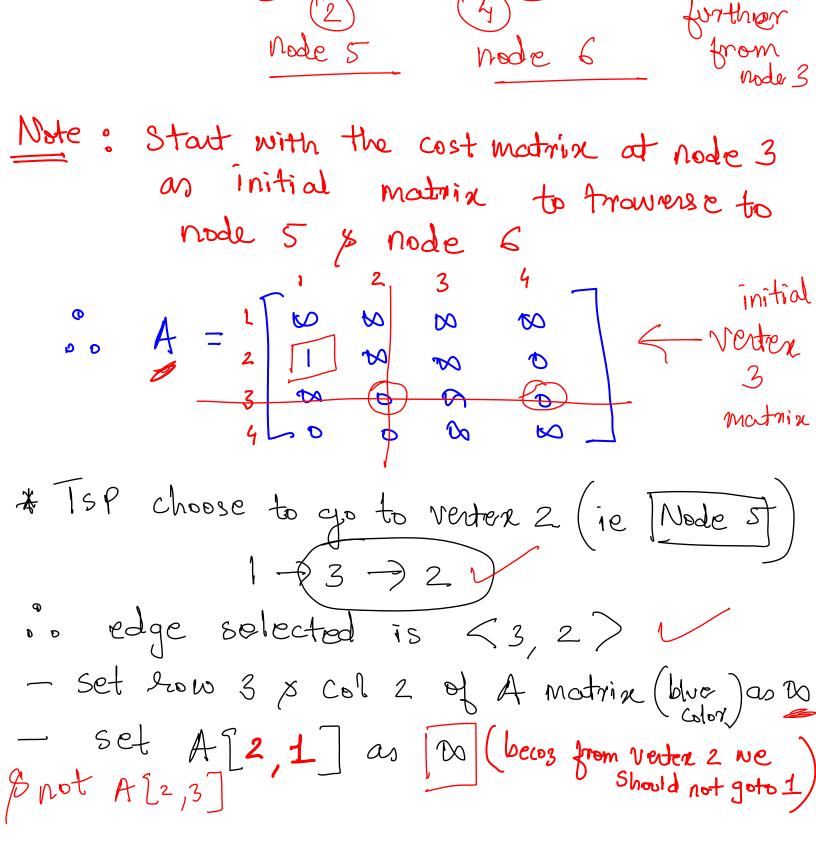
To be used later) cost of node 1 (RCL) = 2 +2 +6 +1 +1

(cost of reduction reduced cost) = 14 * TSP Choose to go to Verter 2 (ie Node2) edge <1,27 is selected - set row 1 & column 2 to low Alijoset A[2,1] entry in motion as low

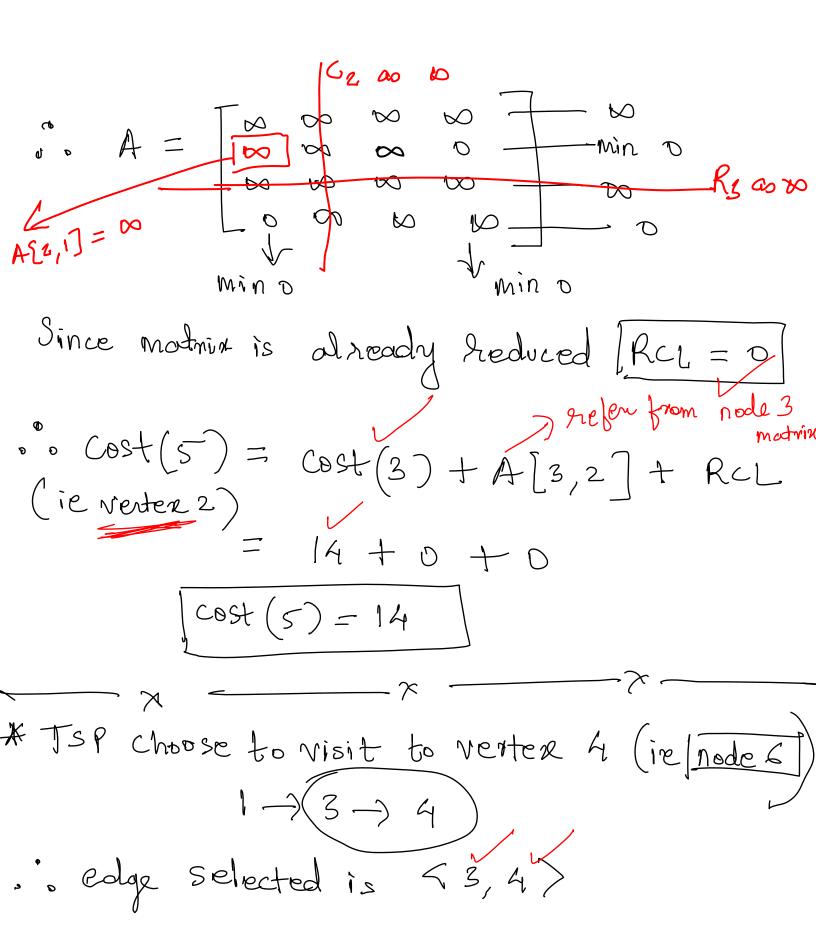




- set now 1 & column 4 of node I matrix as - set A[A,i] as as 50 | RCL = 1 Cost (4) = cost (1) + A[1,4] + RCL = 14 + 0 + 1 (COSt (4) = 15



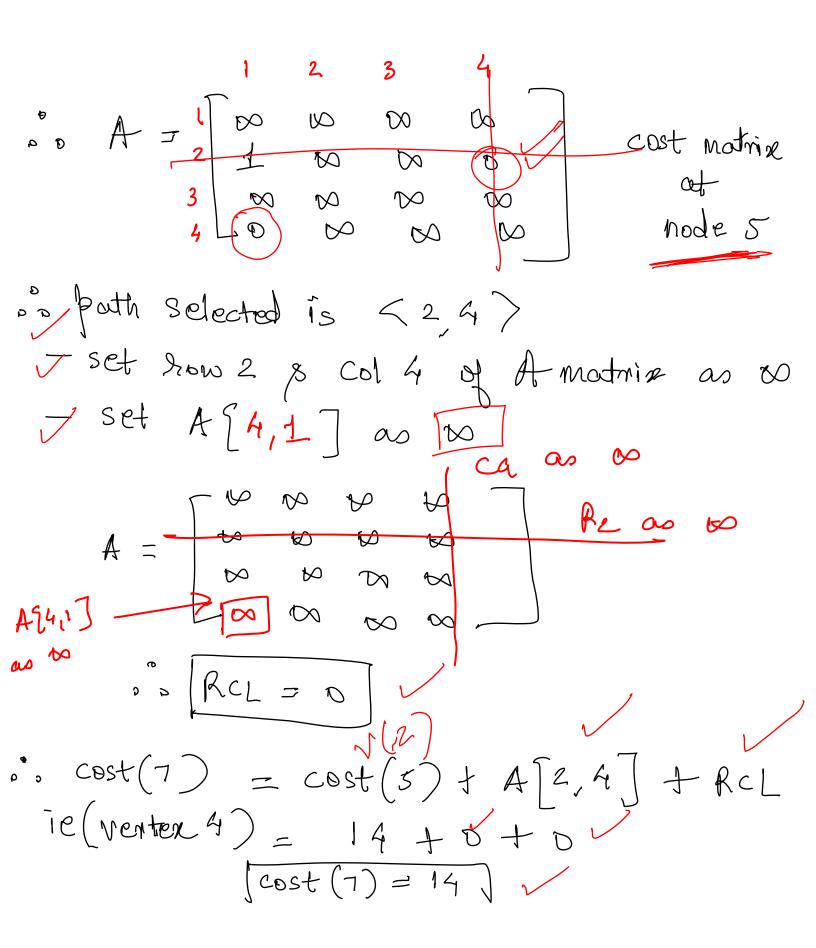
So traverse



- set Irow 3 & column 4 of Amotria as oo - set A [4,1] = 00 Cost(3) matrin

(ost(3) matrin 00 | RCL = 1 o cost (6) = cost (3) + A [3,4] + RC1 (Verter 4) = 14+0+1 [cost (6) = 15

ie with cost 14 2 path explore from nodre 5 (veter 2) vertices to Also Consider the motiva at node 5 (ie vertice) as initial matrix to traverse to



as Tour (.°s all nodes with cost greater than 14 will get deleted)

Soin Min cost = 28

$$+our \Rightarrow 1 \rightarrow 4 \rightarrow 2 \rightarrow 5 \rightarrow 3 \rightarrow 1$$