Final Jahr

Andredor point also

Connected comprant: sa node corre stoget noch so

Bi-connected: (2018 Path ma note 2)

Anticulation point: organismore signs the graph or

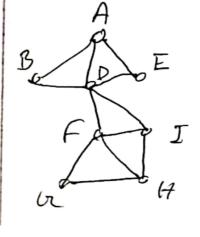
তাদ প্রপ্ত আছ।

if there in no A. Point then it will be bl-connited.

V Strategy? O Remove vordicos

o (n(m+n))

· Dfo so the to edge sin of Get back-adge -





~1001° billedge J [w] " low [w] thee edge 4 Bini (D) d=3 And Anticalation d = 5 2,3,4,5,6 dal, 6,3,2,4,5 (Pit John back be=1,1,1,3,3 to prient)

Parent guild vartices. iff Low [v] > d [u] the V in an articulation point except noot. :. fin 3=> Low[3] > d[4] = 1 > 2 most tet fon 5=D Low[5] >d[3] = 3 > 3 true. 2.(3) In the anticulation

CS CamScanner

Gingle Source Snortest: Diglostra d Path Problem d(u)+c(uv) < d(v)) d[v) = d(u)+c(u,v) way, node () - d(v) = 8 oused for directed & Underected in grogle map -> shortert path. - Relaxation: if d(u) +c(u,v) <d(v) · Georgedy Mound d(v)=d(u)+c(u+,v)

14

Bellman Ford Algo.

Dijkatra Bellman fond you have to relan every edge (V-1). ar, on B&C? C=-2200 WAT For DIJHAMA SHOP विष्ण । SMIT min ams. পোওগ তাব ,

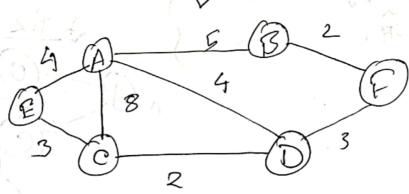
Min Sponning Tree

Krustaval Adgo:

Step: Obraph Ter Joop delete.

and Grand of Parallel edge delete. 2/055120 de

(Cycle 70 TV,

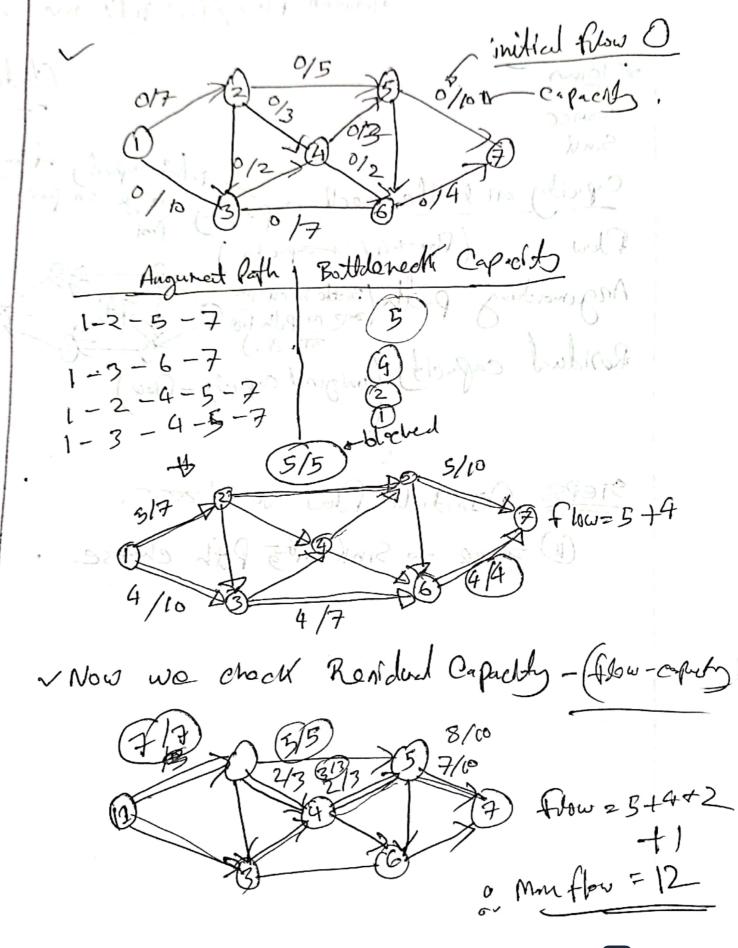


min wight alge MC. \$\\
BF->2, CD->2, DF>3, CE->3, AD>4,
AD-5, AE>7, AC->8

conditioning for Spanning Thee of szarph SP-P Connected subgraph Ce(V, E) in naid to be spuning muldi contain all vertices ofir @ 's' smild contin (1V1-1) edges. G(V,E), G'(V',E') (E, E/= W)-1.

Prims Algo Stopp : 1 bop delete paralel edge delethen no No cycle. & (to total Node boto TV) in edge weight (m) all

Network flow / Find fulkarns with billing Saurce SINK Capacity on bottle neck capacity adge on path.) Flow -DA/54-capacity Angimontory Parth (Buttle nock Too Rosiduel capacity (original capacity - Flow) STEPSE O Install flow STO 0 200, (1) Sance to Sink and Path choose



(All pain sunteit path) Floyed Warnhal Algo o Dynamic approach. -P wonks with neg & Pon edges. but no oneg cycle. = 2 -2 -2 = -3 Formulais Du [i,j] zmin of Dr. [i,j] Dr. [i,k]+Dr. [r,j] 100e, (D) 45 100e, (D) 45 D'[3,3] = Mn (D) [3,3], 0°[3,1]+0°[1,3] en-= ming[3,4+(-2)] D' (Dintare MATRIA) ٥ @ ~ 2 0 α 0 8 « 6 5

It it result I get shortest Peth.

