Tutoral-6

I Minimum Spanning tree

It is spanning tree which has minimum total cost. If we brave a linked for undirected graph with weight combine with each edge then with of spanning tree would be the sum of boxt of its edge

Application - In design of networks including computer networks, transportation networks

I computer networks

On I Prim Diskstra Bellman food

Prim Dijkstra Bellmanford

Teme O(vtE)logV O(ElogV) O(NE)

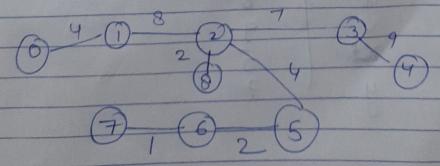
complenety

Space O(v+E) O(V)

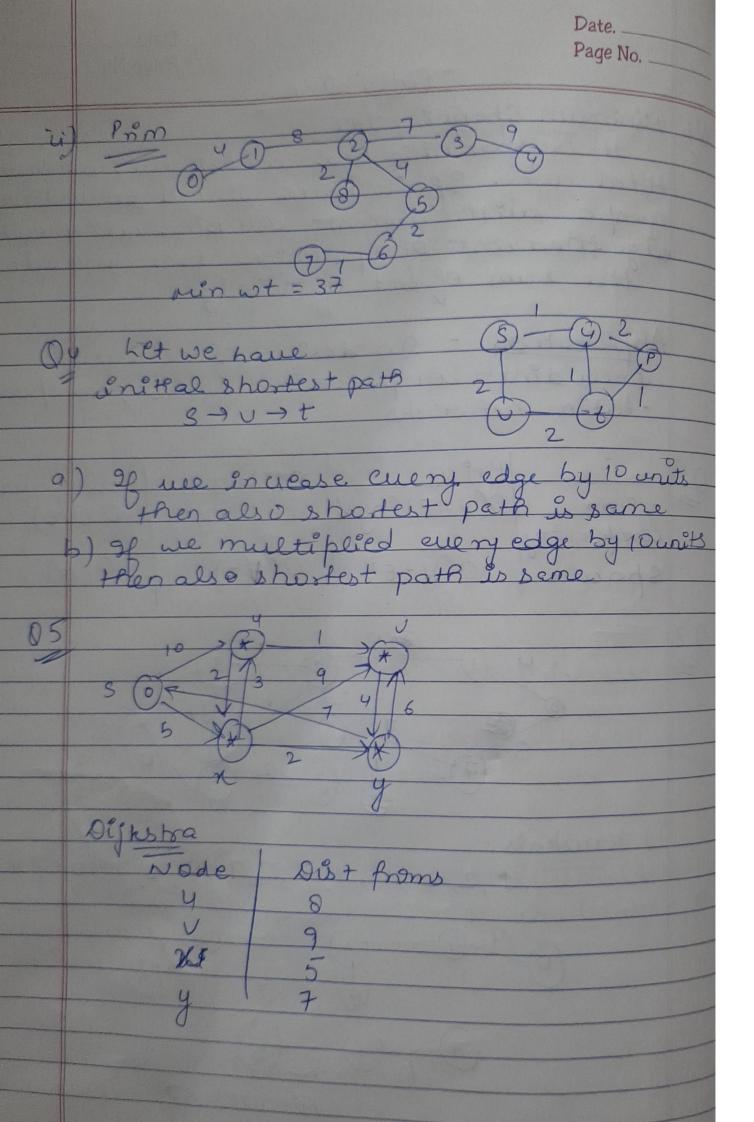
O(N)

0 8 7 3 9 0 8 7 14 G 8 7 1 6 2 6 10

1) Kruskals = 1,2,2,4,4,6,7,7,8,8,9,10,11,14



Min wt 237



	Bellmon
	(S) (Q) (D) (B) (B)
	(0) (01) (11)
	(S) 08 119 5 27
	0° 08 0 (x) (y)
	(S) (Q° (Q) (Q)
	9 5 7
(	06 A = 0 0 0 6 3 0 7
	3 0 0 0 0
	20 20 0 2 20
	201102
	[ 0 4 0 2 0 ]
	A 2 0 0 6 3 00 ) A = (0 0 6 3 2)
	309600 30960
	( 4 2 2 0 ) ( 4 13 2 0 )
	A3 = 0 0 6 3 0 A42 0 4 4 3 0 ]
	3 6 9 6 00 3 0 7 6 00
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$\begin{vmatrix} A-2 & 0 & 4 & 4 & 3 & \infty \\ 3 & 0 & 7 & 6 & \infty \end{vmatrix}$
	\( \alpha \) 3 0 2 \( \Delta \) \( \Delta \) 1 0 \( \Delta \)
	0 3 3 2 0