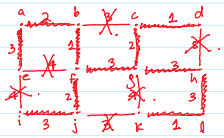
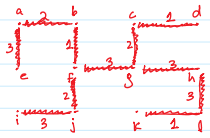
lec # 29:-

Minimum Spanning Tree

Ex 1
P 677

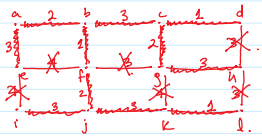


PRIMS ALGO.



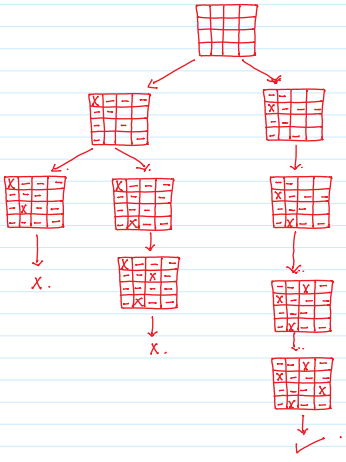
Edges	weights.
(b,f)	1
(a,b)	2.
(f,j)	2.
(a,e)	3
(i,j)	3.
(f,g)	3
(c,g)	2
(c,d)	1
(g,h)	3
(h,l)	3
(k,l)	1

KRUKSHAL ALGO



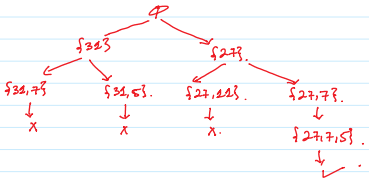
edges	weights.
(c,d)	1
(k,l)	1
(b,f)	1
(a,b)	2
(c,g)	2
(f,j)	2
(b,c)	3
(j,k)	3.
(g,h)	3
(a,e)	3
(i,j)	3.

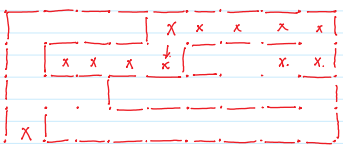
BACKTRACKING. 4 - Queen Problem.



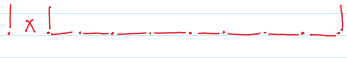
Ex 8 Subset Sum.

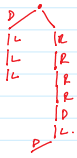
{31, 27, 15, 11, 7, 5}. Sum = 39.





U, D, R, L.





Quiz # 8

	1	2	3	4	5
1	0	1	0	0	1
2	1	0	1	0	0
3	0	1	0	1	0
4	0	0	1	0	1
5	1	0	0	1	0

Find a Spanning tree corresponding to the graph given by the adjacency matrix above.

Quiz # 9.

Find Spanning tree for.

1) 

2) $K_{3,3}$.

Final 55 marks.

Quantifier (2).
Hasse diagram (2)
Graphs / Trees. ✓

15 - Quizes.
15 - SI
15 - SII.

Comments / Suggestions