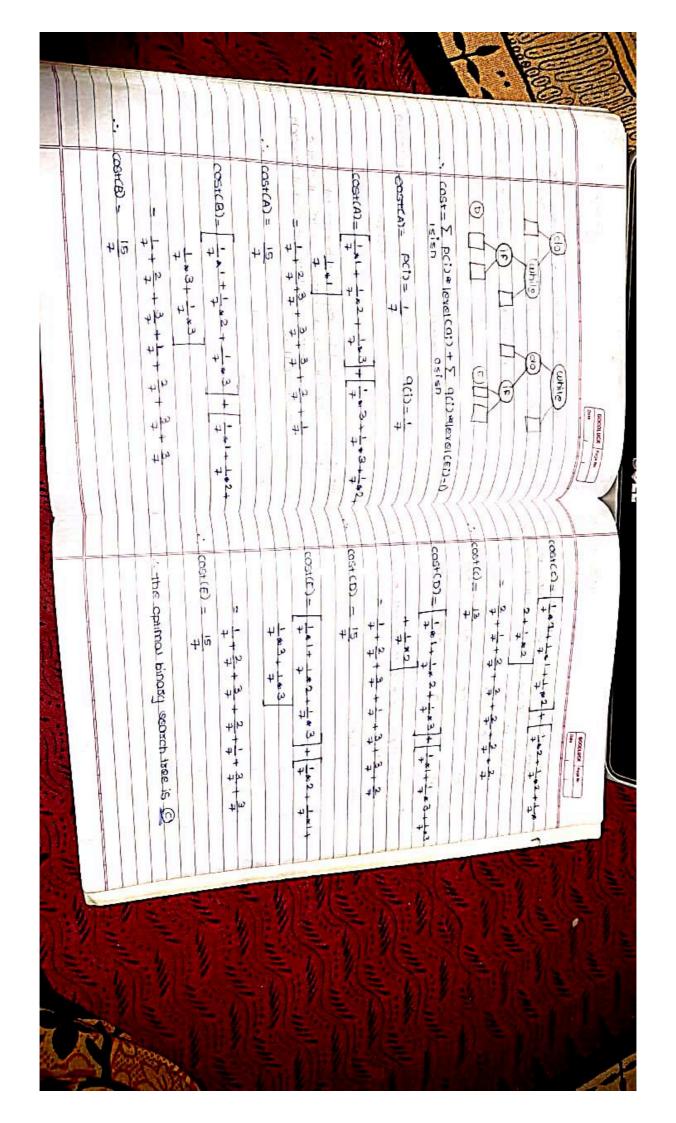


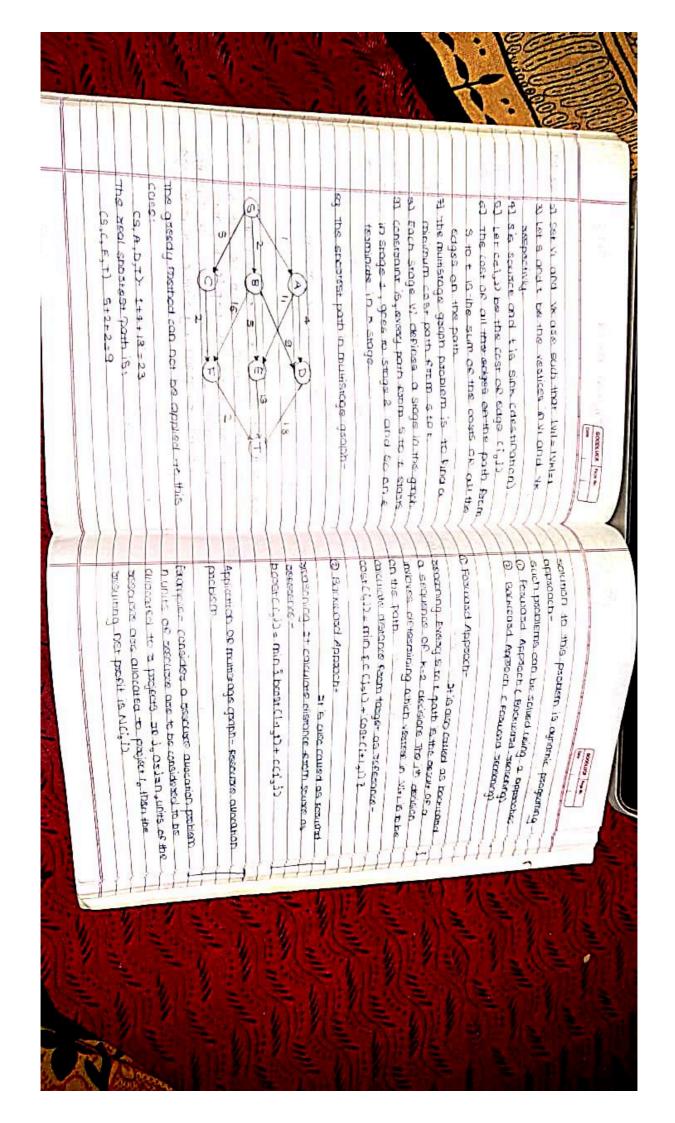
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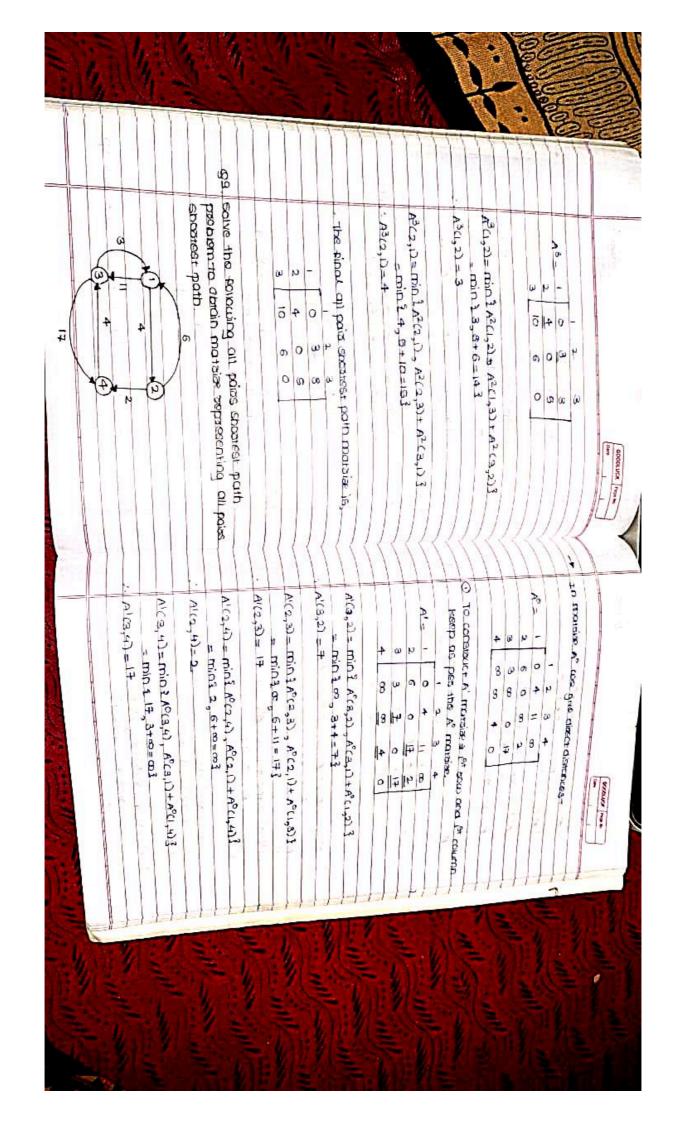
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$A'(2,3) = \min_{x \in A'(2,3) = 2} A'(2,3) = 0$ $A'(2,3) = 0$ $A'(2,3) = 0$	A-1 - 2 - 2 - 3 - 4 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	O to construct A' > 1St your and 1St column keep as per previous marriae he. A'	Ao 1 0 4 11 pin mansise Ao 2 (ne give disect 3 3 00 0 disances	→ The economic is + A* (i,j) = min { A* (i,j), A* (i,	3 " 3	gra- solve the solveing all poiss shootest path of poiss shootest path.
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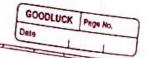
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	$\frac{A^{2}(1,4) - 6}{A^{2}(3,1) - min^{2}A^{2}(3,1) - min^{2}A^{2}(3,1) + A^{2}(2,1)^{2}}$ $\frac{A^{2}(3,1) - min^{2}3}{a^{2}(3,1) - 3} + 6 = 13^{2}$	$A^{2}C_{1,3}=0$ $= 0$	(2) To construct A ² marsise > 1 nd about about 2 nd coulumn keep as pex the A ¹ marsise. A ² 1 0 4 11 6 A ² 1 0 4 11 6 3 3 4 0 9 4 \square \text{3} \text{3} \text{4} \text{0} \text{3} \text{4} \text{0} \text{5} \text{6} \text{6} \text{7} \text{1} \text{6} \text{6} \text{6} \text{6} \text{6} \text{6} \text{7} \text{1} \text{6} \text{6} \text{6} \text{6} \text{6} \text{7} \text{6} \text{6} \text{6} \text{6} \text{6} \text{6} \text{7} \text{6} \text{6} \text{6} \text{6} \text{6} \text{6} \text{6} \text{6} \text{7} \text{6} \text{6} \text{6} \text{6} \text{6} \text{6} \text{7} \text{7} \text{6} \text{6} \text{6} \text{7} \text{6} \text{6} \text{7} \text{6} \text{6} \text{7} \text{6} \text{6} \text{6} \text{7} \text{6} \text{6} \text{6} \text{7} \text{6} \text{6} \text{6} \text{7} \text{6} \text{6} \text{6} \text{7} \text{7} \text{6} \text{7} \text{6} \text{7} \text{7} \text{6} \text{7} \text{7} \text{7} \text{7} \text{6} \text{7} \text{7} \text{7} \text{7} \text{6} \text{7}	$A(C+,2) = \min_{i} A^{C}(C+,2), A^{C}(C+,1) + A^{C}(C+,2) $ $A(C+,2) = \min_{i} A^{C}(C+,2), A^{C}(C+,2) $ $A(C+,2) = \min_{i} A^{C}(C+,2) $ $A(C+,2) =$
$A^{3}(2,4) = \min_{x \in \mathbb{N}} \sum_{x=1}^{n} A^{2}(2,4) + A^{2}(3,4)$ $= \min_{x \in \mathbb{N}} \sum_{x=1}^{n} A^{2}(2,4) + A^{2}(3,4)$ $= \sum_{x \in \mathbb{N}} A^{3}(2,4) + A^{2}(3,4)$	$A_{3}(1,4) = 6$ $A_{3}(2,1) = \frac{1}{6} + 3 = 20$ $A_{3}(2,1) = \frac{1}{6} + 3 = 20$ $A_{3}(2,1) = 6$	$A^{3}(1,2) = \min_{i} \frac{1}{1} \frac{A^{2}(1,2)}{1} \frac{A^{2}(1,3) + A^{2}(3,3) + A^{2}(3,2)}{1}$ $= \min_{i} \frac{1}{1} \frac{A^{2}(1,3)}{1} + \frac{A^{2}(1,3) + A^{2}(3,2)}{1}$ $= \frac{1}{1} \min_{i} \frac{1}{1} \frac{A^{2}(1,3)}{1} + \frac{A^{2}(1,3) + A^{2}(3,2)}{1}$ $= \frac{1}{1} \min_{i} \frac{1}{1} \frac{A^{2}(1,3)}{1} + \frac{A^{2}(3,3) + A^{2}(3,2)}{1}$	CONTROL KSEP OF PESTAGES 375 SOLUTION 375 AB 1 0 4 11 6 3 3 7 0 9 1 1 4 0	$A^{2}C^{4}, D = \min_{n=1}^{\infty} A^{1}C^{4}, D = \min_{n=1}^{\infty} A^{1}C^{4}, D + A^{2}C^{4}, D + A^{2}C^{4}, D = \min_{n=1}^{\infty} A^{1}C^{4}, D + A^{2}C^{4}, D = \min_{n=1}^{\infty} A^{1}C^{4}, D + A^{2}C^{4}, D = \min_{n=1}^{\infty} A^{1}C^{4}, D + A^{2}C^{2}, D = \min_{n=1}^{\infty} A^{2}C^{4}, D = \min_{n=1}^{\infty} A^{2$

Tutorial No: 4

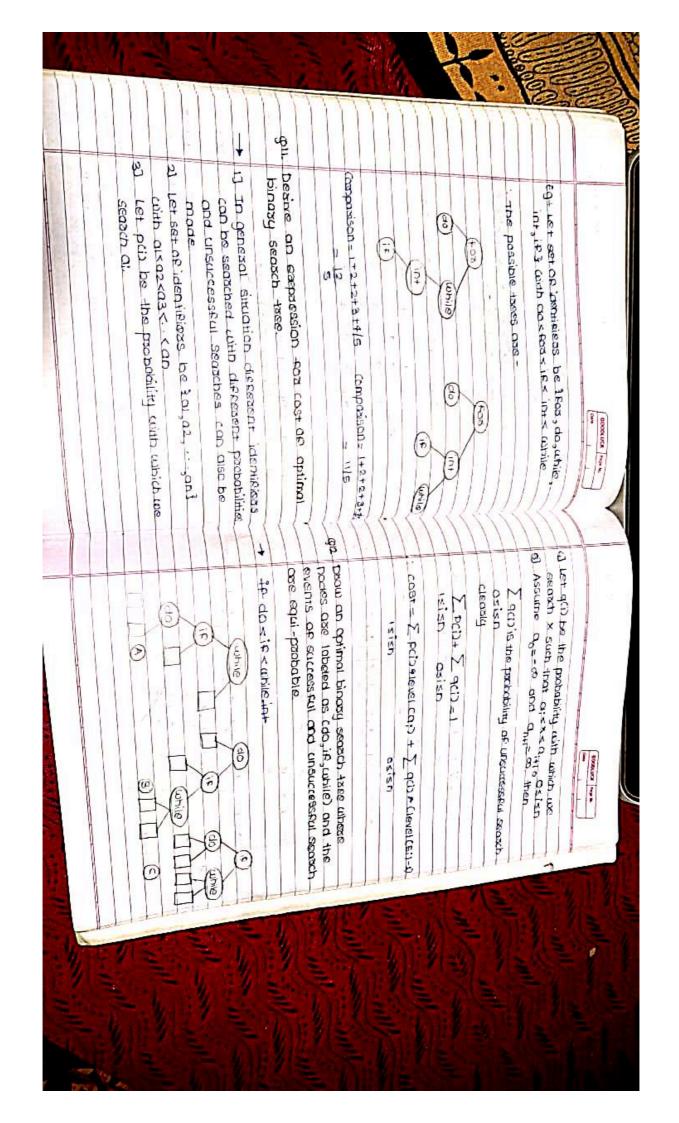


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- technique for solving an optimization problem by breaking it down into simpler subproblems and utilizing the fact that the optimal solution to the overall problem depends upon the optimal
 - 27 Dynamic programming drastically reduces.
 - g It avoids the enumeration of some decision sequences, that cannot possibly be optimal.
 - 47 In dynamic programming, many decision sequences can be generated but sequences can not be optimal.
 - al All paize shoztest job algazithm.

 bl multistage graph problem.
- Explain multistage graph problem and its use in besource allocation problem. OR what is application of multistage graph. OR Explain any ane application of multistage graph. OR Explain dynamic programming colutions to multistage graph problem.

The multistage grouph G= (V,E) is a direction graph, in which the vertices are positioned into kill disjoint sets Vi, 1515k



(B) cost(2,4) = min 3c(4,3)+ mst(3,3)= 11+7- c(2,4)= min 3c(4,3)+ mst(3,3)= 11+7- c(3,2)= 13-1- c(4,3)+ mst(2,3)= 11+7- c(4,3)+ mst(3,3)= 11+7- c(4,3)+ mst(3,3)+ mst(3,3)= 11+7- c(4,3)+ mst(3,3)+ mst(3,3)= 11+7- c(4,3)+ mst(3,3)+ mst(3,3)+ mst(3,3)= 11+7- c(4,3)+ mst(3,3)+ mst(3,3)= 11+7- c(4,3)+ mst(3,3)+ mst(3,3)= 11+7- c(4,3)+ mst(3,3)+ mst(3,3)+ mst(3,3)= 11+7- c(4,3)+ mst(3,3)+ mst(3,3)	(a) cost(2,3) = min \(\frac{2}{2}(\text{cost(3,4)} = 2 + 7 - \frac{2}{2}\) \(\frac{2}{2}(\text{cost(2,3)} = \frac{2}{2} + \frac{2}{2} + \frac{2}{2}\) \(\frac{2}{2}(\text{cost(2,3)} = \frac{2}{2} + \frac{2}{2} + \frac{2}{2}\) \(\frac{2}{2}(\text{cost(2,3)} = \frac{2}{2} + \f	.: rost(2,2)=≠	the property	® cost(3,3)	(\$\frac{1}{2} = \frac{1}{2} \cdot \frac{1}{2} \c	Date Date
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