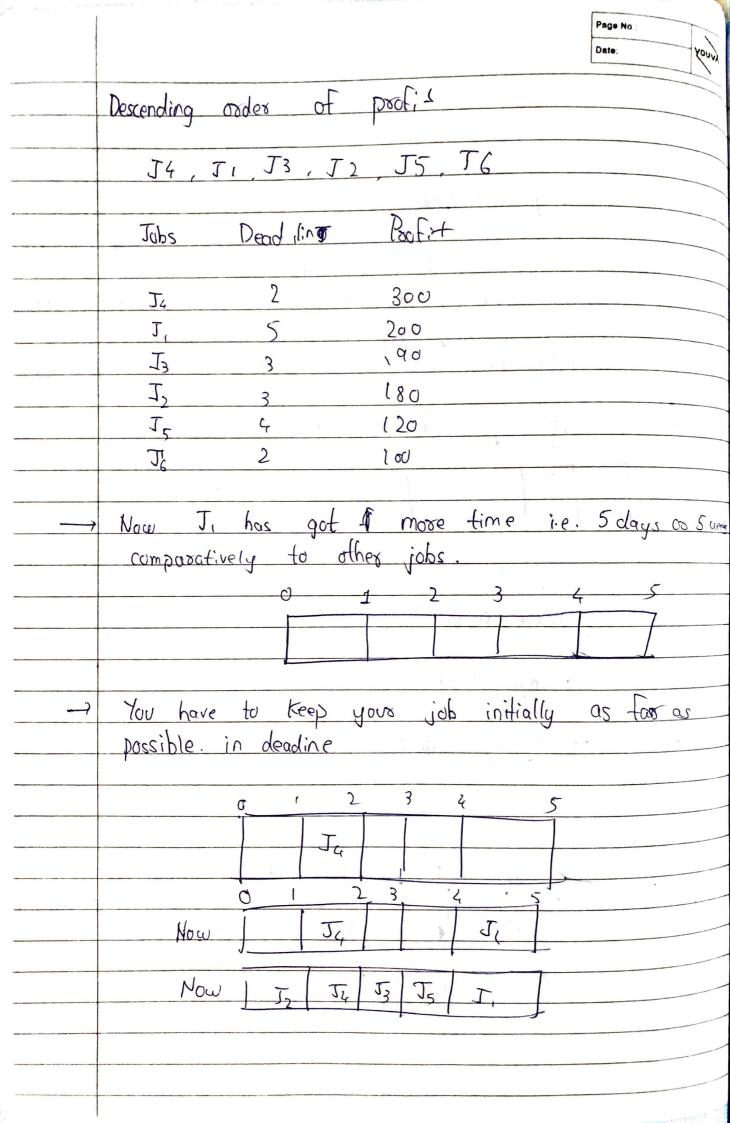
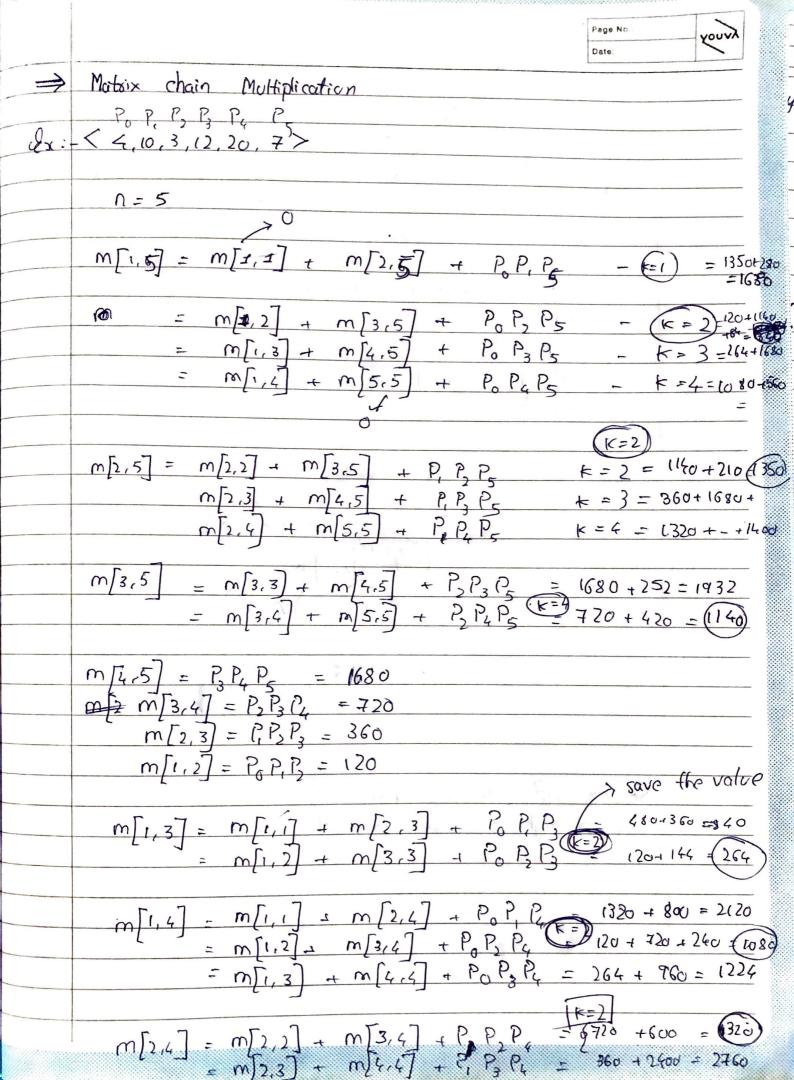
	nodes.
->	Binomial heaps is a collection of binary tree.
* ⇒	Disjoint Set Data Structuse.
	3 operations performed by Dat Disjoint Set DS
	i) Make - Set ii) Find - Set · iii) Union.
	i) Make set - It will convert set elements into singleton set (for e.g. &1,2,3\forall \into \) \(\delta \text{1} \) \(\delta \text
	ii) Find-set: - It will return the representative element of the prosticular set element
	ii) Union: - It will be applicable only when Find-Set of 2 elements are different.
	For é.g. $X = aa,b,c$ For X , let aay is the separate $Y = ax,y,z$ For Y , let aay is the separate $Y = ax,y,z$ For Y , let aay is the separate $Y = aa,b,c$ For Y , let aay is the separate $Y = aa,b,c$ For Y , let aay is the separate $Y = aa,b,c$ for Y , let aay is the separate $Y = aa,b,c$ for Y , let aay is the separate $Y = aa,b,c$ for Y , let aay is the separate $Y = aa,b,c$ for Y , let aay is the separate $Y = aa,b,c$ for Y , let aay is the separate $Y = aa,b,c$ for Y , let aay is the separate $Y = aa,b,c$ for Y , let aay is the separate Y .
	As X For same set elements we cannot do union as the particular set has only 1 representative. Not passible - Union of (Find-set(a) Find-set) Resible - Union of (Find-set(d) Find-set)

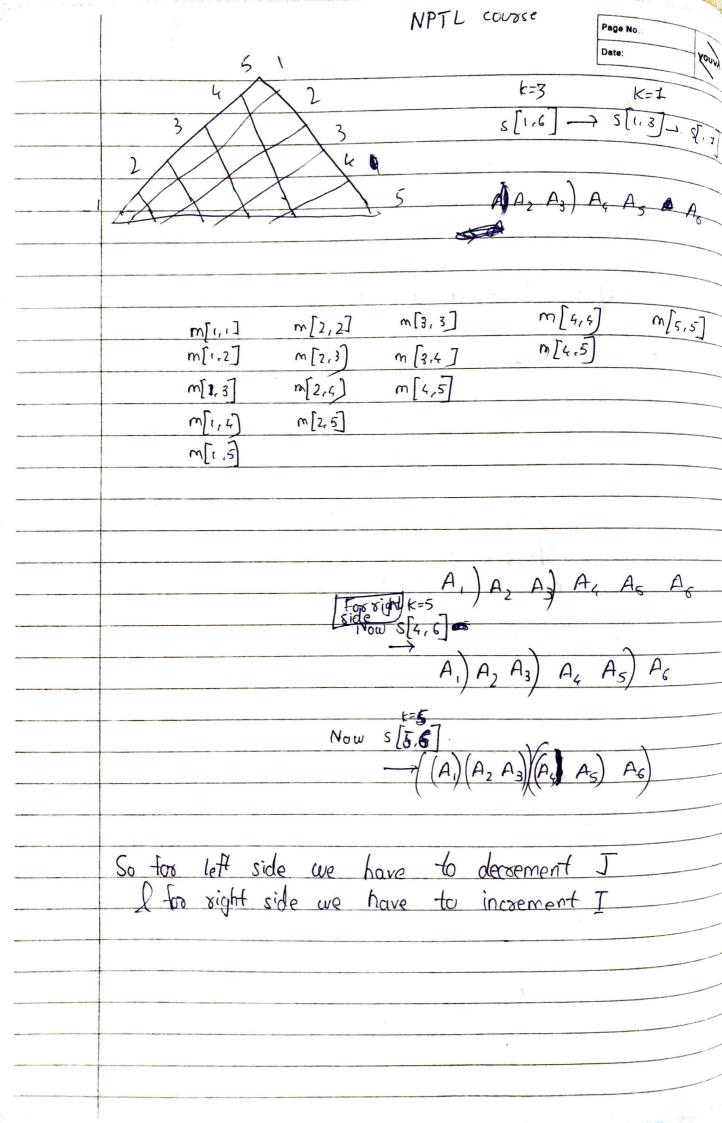
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\rightarrow	Applications of Disjoint-Set DS.
I)	Finding connected components in a graph (undirected)
\rightarrow	Connected components means between 2 vestices at least 1 path should be there.
→	For Algorithm we will do go edge by edge in line number 3,4,5 —————————————————————————————————
<u> </u>	See ppt
\Rightarrow	List of Paradigms
1) 2) 3) 4) 5) 6) 1)	Backtracking Branch & bound Brute - force soarch Divide & conquer Dynamic programming Asseedy Algorithm Prune & search.

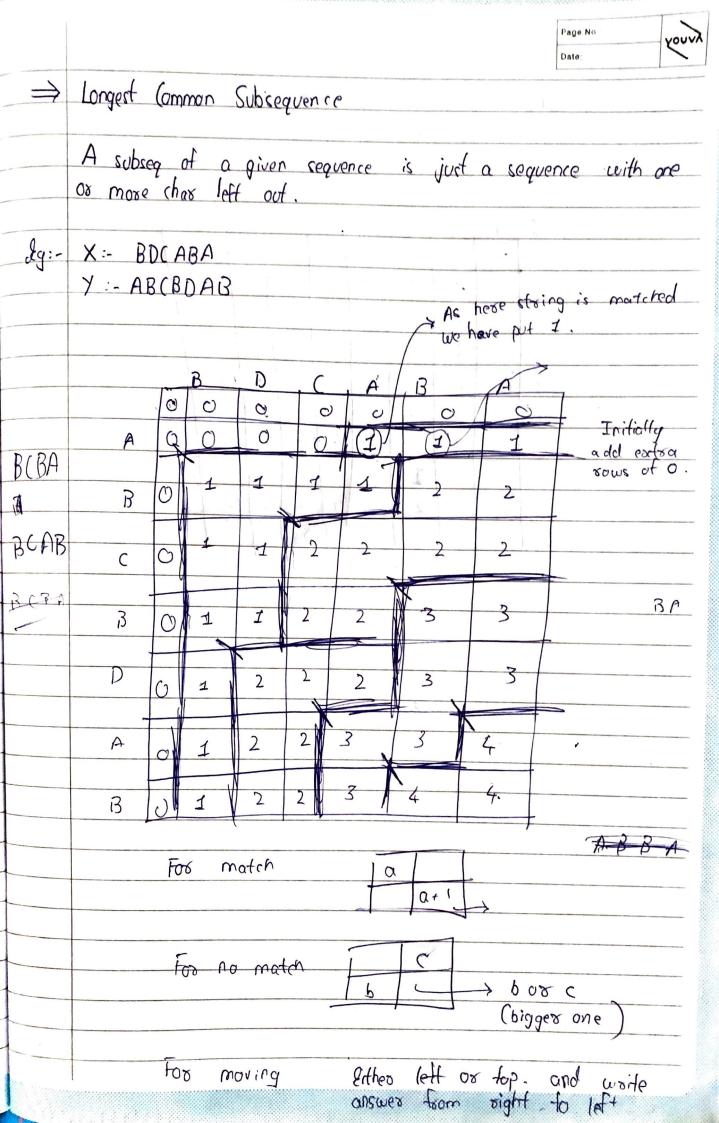
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