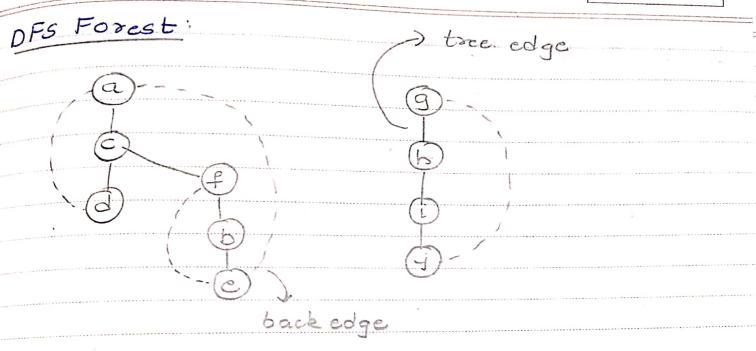
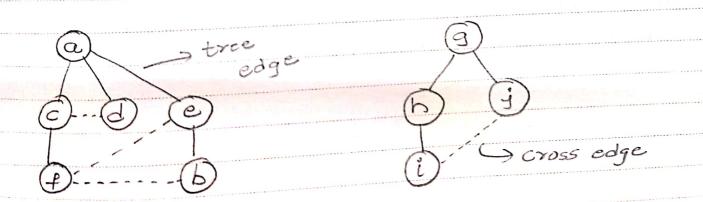
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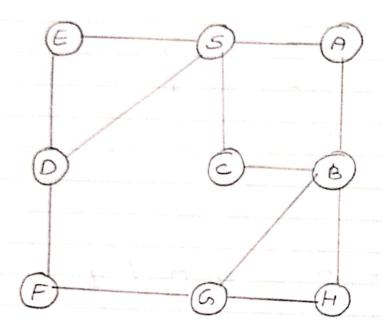
BFS Forest



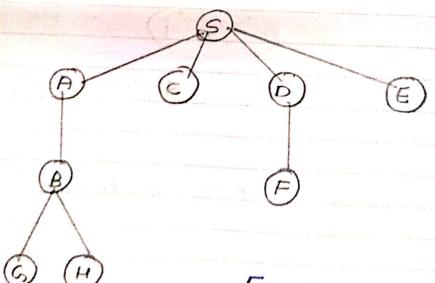
Traversal: a c d e f b g b j i

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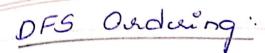
Draw a shortest path tree for the given graph, from 5.

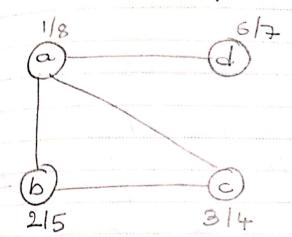


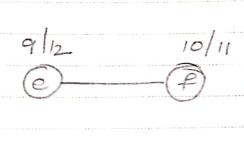
We can apply BFS traversal to obtain the Shortest path tree. BFS creates a tree with shortest path from given source vertex to every other vertex.



has no weighted edges. Or all are of same weights.







Lemma: For any vatices u, o the intervals [precu), post(u)] and [precu) and post(e)] are either nested or disjoint.

Nested:



Disjoint:

Interleaved is not possible.



Eg: (1,8) & (6,7) are nested (2,5) & (6,7) are disjoint

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Eg: - Which of the following tables is not a balid set of pre- & post-orders?

Table 01				1able 02.			
	O	Pie	Post		Pore	Post	
	A	1	8	A		9	
	B	9	10	В	8	10	
	C	3	4	C	a	7	
	D	a	7	D	3	6	
	15	5	6	=	4	5	

Table 02, as justified by lemma.

interleaved: