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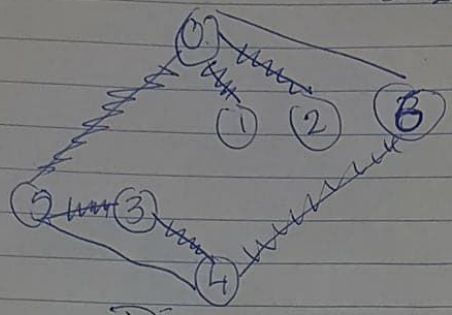
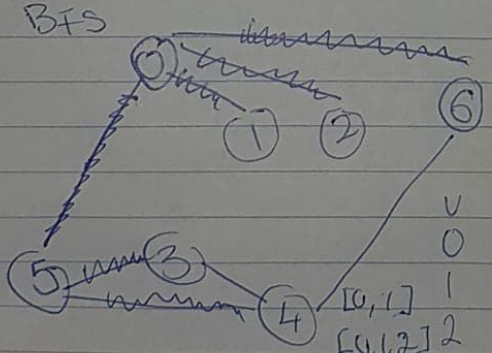
(1)



DFS

Marked[]	edgeTo[]	id[]	array	V
T		0		0
T	0	0	[0]	1
T	0	0	[0,]	2
T	0	0	[0, 1, 2,]	5
T	5	1	[0, 1, 2, 5]	3
T	3	2	[0, 1, 2, 5, 3]	4
T	4	3	[0, 1, 2, 5, 3, 4]	6

(2) BFS



V	edgeTo[]	id[]	marked
0			T
1	0	0	T
[0,1] 2	0	0	T
[0,1,2] 3	5	1	T
[0,1,2,6,5,3] 4	5	1	
[0,1,2,6,5,3,4] 5	0	0	T
[0,1,6,5] 6	0	0	T
[0,1,2,]			

Procedure ~~Hamiltonian Path~~ (given G)

$L \leftarrow$ Empty list
$L_2 \leftarrow$ Empty list.
$L_2 \leftarrow$ add all vertices with no incoming edges
Check if they exist duplicate vertices.

(3) We can determine a DAG has a hamiltonian path by counting the topological order and checking that there is an edge between each consecutive pair of vertices in the order.