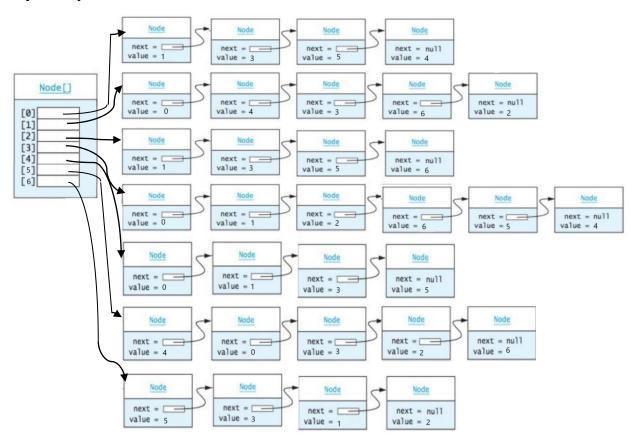


Adjacency List



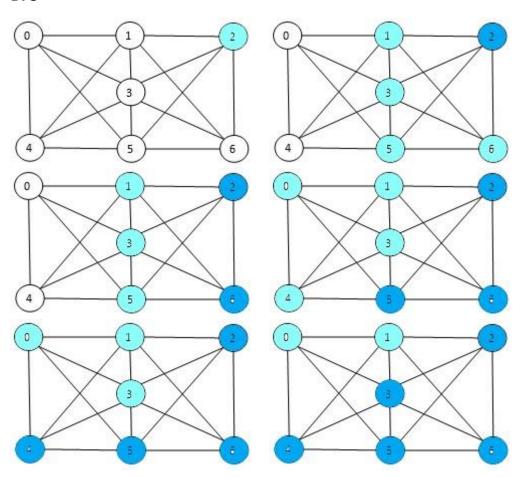
Adjacency Matrix

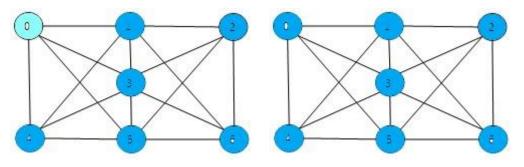
	[0]	[1]	[2]	[3]	[4]	[5]	[6]
[0]		1.0		1.0	1.0	1.0	
[1]	1.0		1.0	1.0	1.0		1.0
[2]		1.0		1.0		1.0	1.0
[3]	1.0	1.0	1.0		1.0	1.0	1.0
[4]	1.0	1.0		1.0		1.0	
[5]	1.0		1.0	1.0	1.0		1.0
[6]		1.0	1.0	1.0		1.0	

|V| = 7 and |E| = 16. Density = 2.29.

An adjacency matrix is most efficient since $|\,E\,|$ is 67% of ½ $|\,V\,|^{\,2}.$

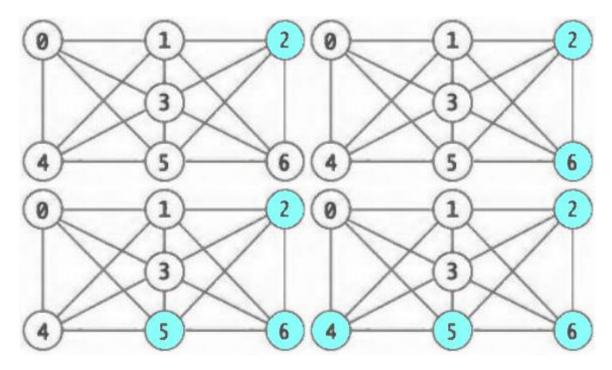
BFS

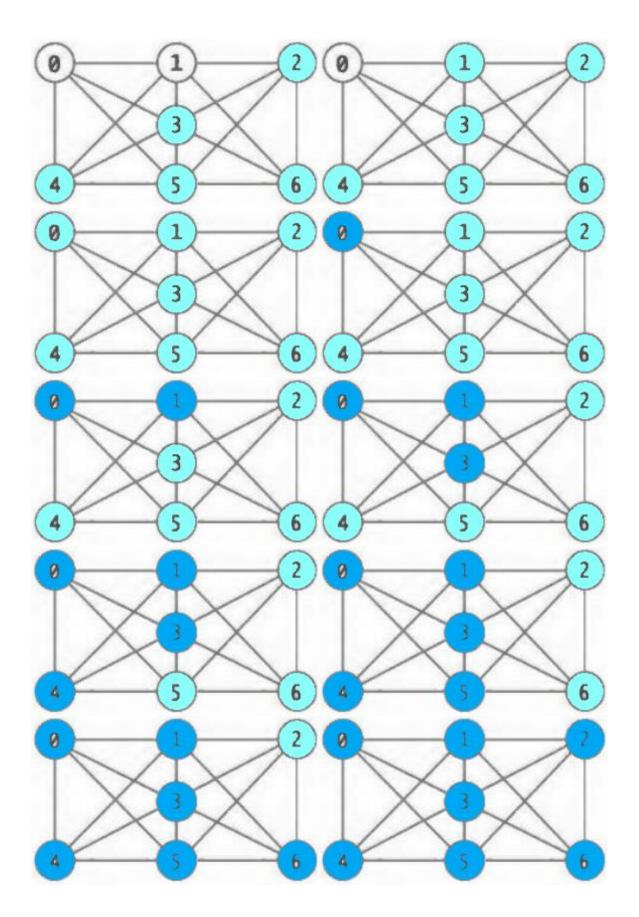




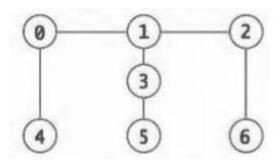
Vertex Being Visited	Queue Contents after	Visit Sequence
2	6531	2
6	5 3 1	2 6
5	4310	265
4	3 1 0	2654
3	10	26543
1	0	265431
0	empty	2654310

DFS

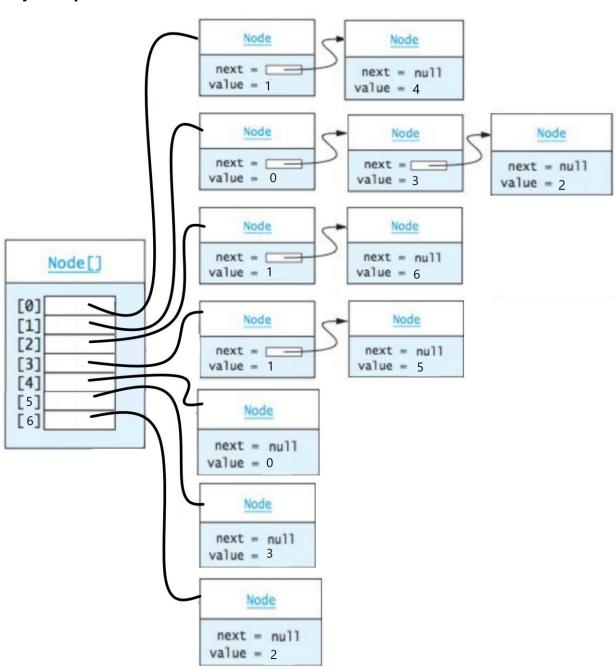




Operation	Adjacent Vertices	Visit Order	Finish Order
Visit 2	1356	2	
Visit 6	1235	2 6	
Visit 5	02346	265	
Visit 4	0135	2654	
Visit 3	012456	26543	
Visit 1	02346	265431	
Visit 0	1345	2654310	
Finish 0			0
Finish 1			01
Finish 3			013
Finish 4			0134
Finish 5			01345
Finish 6			013456
Finish 2			0134562



Adjacency List



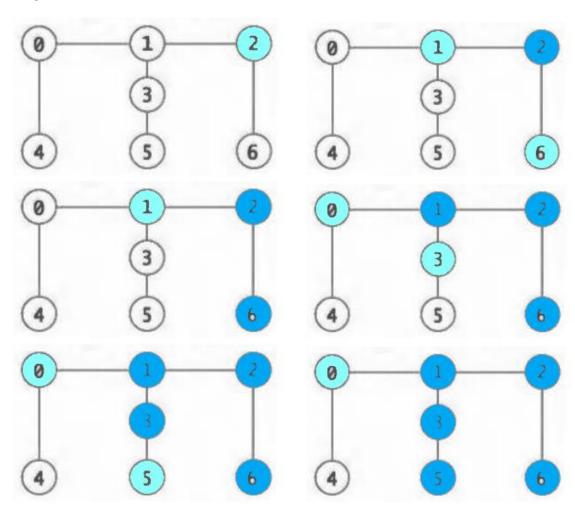
Adjacency Matrix

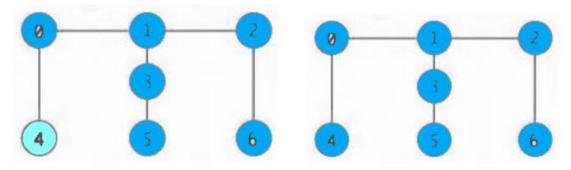
	[0]	[1]	[2]	[3]	[4]	[5]	[6]
[0]		1.0			1.0		
[1]	1.0		1.0	1.0			
[2]		1.0					1.0
[3]		1.0				1.0	
[4]	1.0						
[5]				1.0			
[6]			1.0				

|V| = 7 and |E| = 6. Density = 0.86.

An adjacency list is most efficient since |E| is less than |V|.

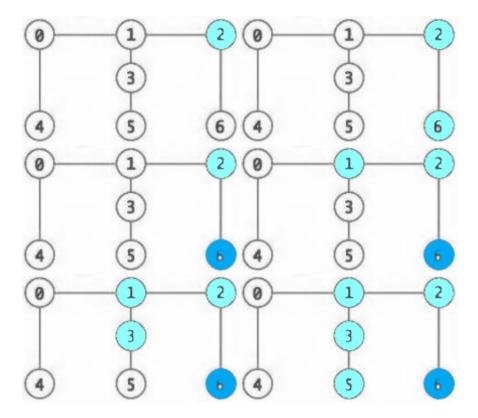
BFS

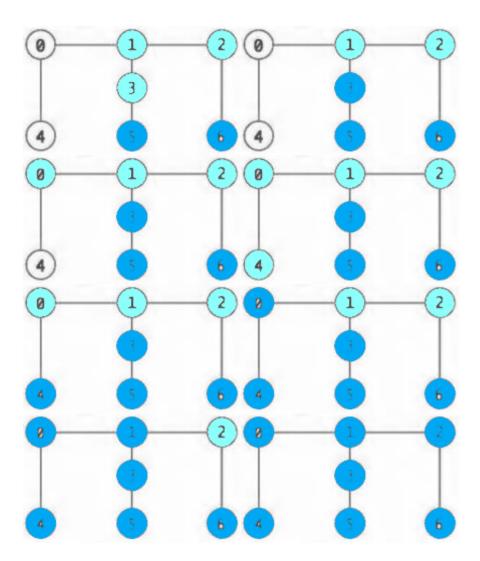




Vertex Being Visited	Queue Contents after	Visit Sequence
2	6 1	2
6	1	2 6
1	3 0	261
3	5 0	2613
5	0	26135
0	4	261350
4	empty	2613504

DFS





Operation	Adjacent Vertices	Visit Order	Finish Order
Visit 2	16	2	
Visit 6	2	2 6	
Finish 6			6
Visit 1	023	261	
Visit 3	15	2613	
Visit 5	3	26135	
Finish 5			65
Finish 3			653
Visit 0	14	261350	
Visit 4	1	2613504	
Finish 4			6534
Finish 0			65340
Finish 1			653401
Finish 2			6534012