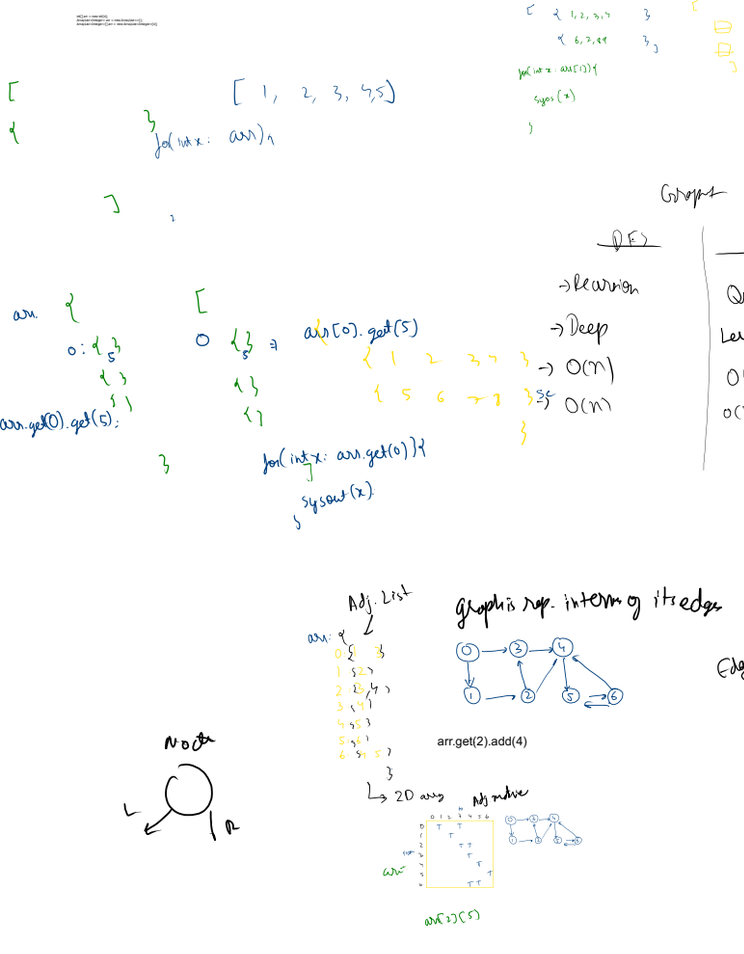
[[1, 2, 3, 4,5]
for(int x : arr)
arr.get(0).get(5);
arr[0].get(5)
for(int x : arr.get(0))
sysout (x)
Graphs
DFS
BFS
→ Recursion
→ Deep
→ O(m)
O(m)
Queue
Level by Level
O(m)
O(n)
BFS
DFS
graph.get(u).add(v);
graph.get(u).add(v)
012345
Adj. List
graph is rep. in terms of it's edges
arr.get(2).add(4)
20 array
Adj matrix
Node
L
R
Edges
Directed Graph: Edges are directed
Undirected Graph: Edges are bi-directional
Cyclic graph
undirected
directed
Cyclic
Acyclic
Directed Acyclic Tree
output:- 0 1 3 2 4 5 6
undirected → BFS
→ DFS
Directed → DFS
Path:
BFS
1) Remove
2) Mark
3) Work
4) Add unvisited