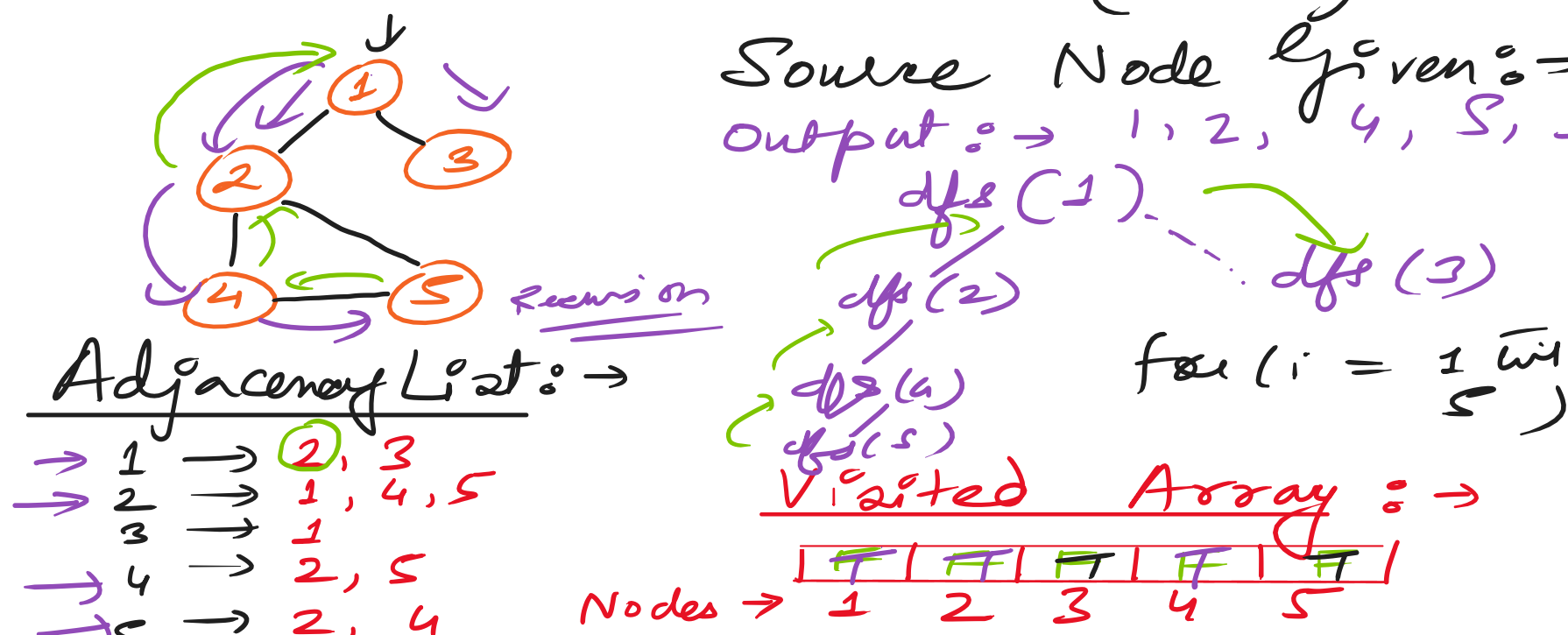


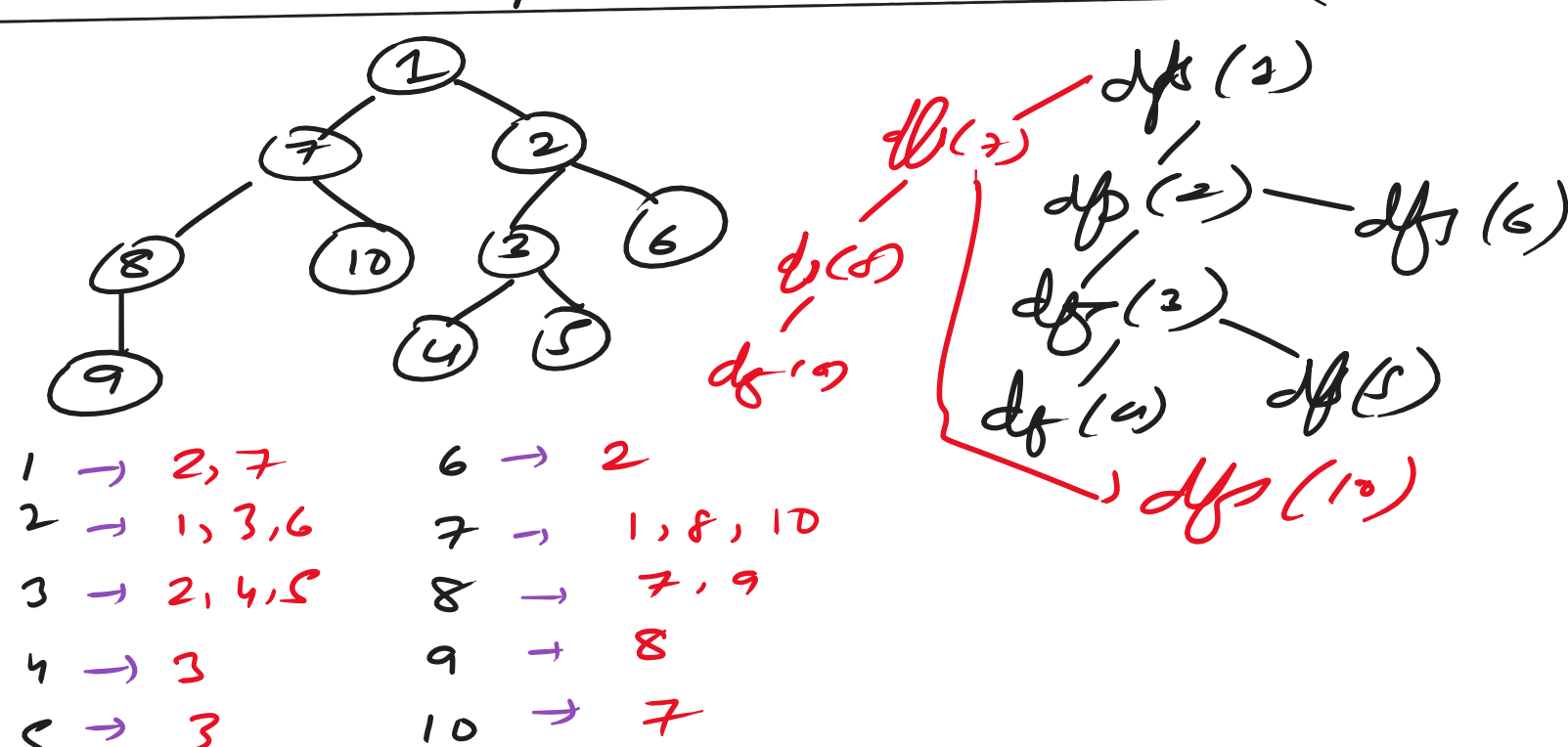
Graphs : Depth First Search

src Traversal (DFS) :->

Source Node Given :->
Output :-> 1, 2, 4, 5, 3



BNMIT -> Capgemini -> 2024 (DFS)



Serialization <-> Deserialization

obj -> file file -> obj

Serializable (Interface)

Employee (SER)

obj { name -> Yashin
address -> Uttarahalli
* SSN -> 123456 transient
number -> 98765 42310
[A] X [D]

Graph Algorithms :-> Important Topics

① Cycle Detection -> Undirected

<Disjoint Set>

DFS BFS

② Cycle Detection -> Directed -> DFS

③ Shortest Distance Algos :->

④ Dijkstra's ⑤ Bellman Ford

⑥ Floyd Warshall's

⑦ Spanning Tree <-> ⑧ Prim's ⑨ Kruskal's **

⑩ DAG -> ⑪ Topological Sort DFS

Kahn's Algo <-> ⑫ Topological Sort BFS

371 -> 2 (In Degree)

⑬ Kosaraju's Algorithm

* No of Islands



Intuition/Idea :->

also visit parent (cycle)

7
6
4
5
X
X
X
X

D.P. * Climbing Stairs

* L C S

① Recursion ✓

② Memoization ✓

③ Tabulation ✓

④ Space optimization XX

C	C++	Java	Python
Storage	friend	Streams	Duck Typing
Classes	class	Threads	Operator
enums	friend	Generics	Overloading
files	function	Wildcards	regex
pointers	templates	Files	shutil
struct	unique	Try with	OS
&	pointer	Resources	lambda
unions	files	JDBC	List
	copy constructor		Comprehension
Feedback :->	1 4 2 7 1		** Walrus operator
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