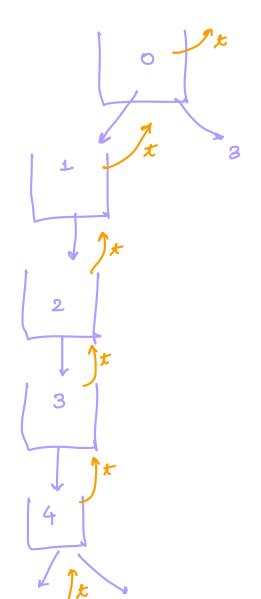
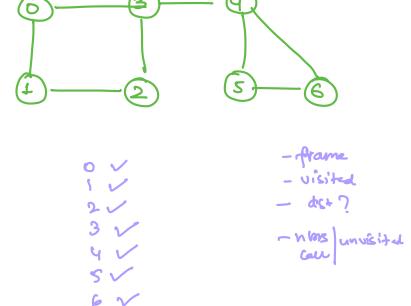


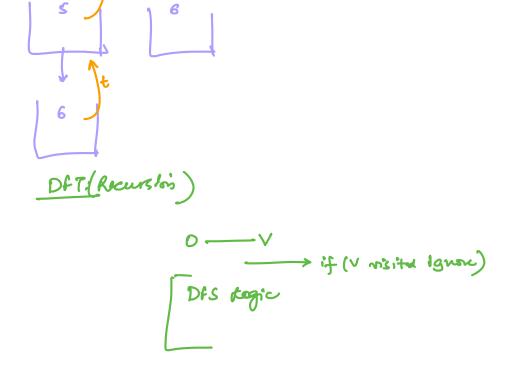
## DFS (Recursively)

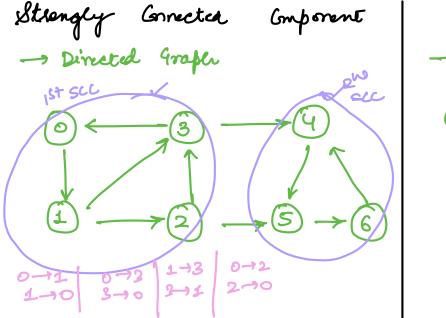
SYC : 0

dst=6







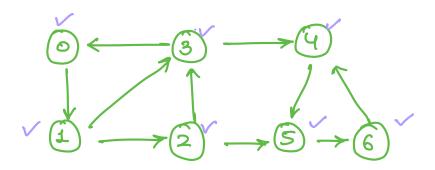


Connected Component

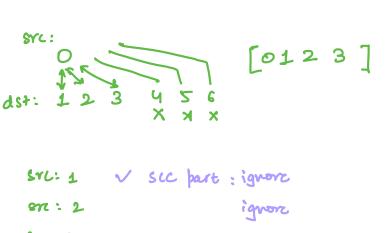
-> Undiverted Greger

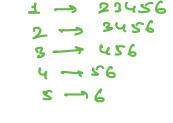
(1) (3) (4) (5) (6)

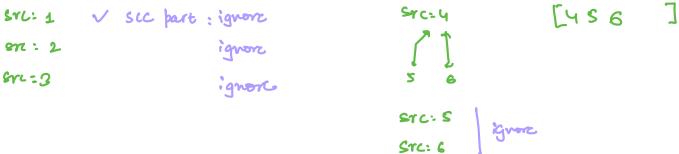
A subgraph of a directed graph is called as see if and only if for every pair of vertices A and B there exist a path from A to B and path from B to A.



STC RST: 0 -> 123456



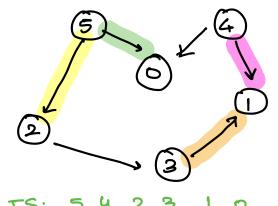




GRAPH: dfc, bfs, aft, bft, istree, is (yeller, get CC, islamented 2 its applicationi.

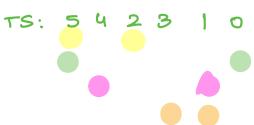


→ Directed Acyclic Grapes (DAG)



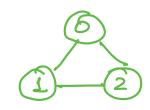
u->V

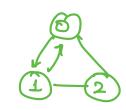
TS: u should come before v.



DFT? 523104 3 but not TS

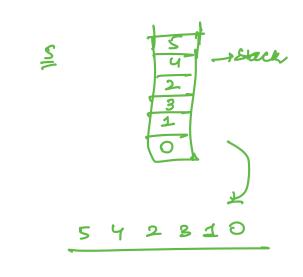
Undirected Graph?





1→0 10 0→1 01

1



inserting

deleting

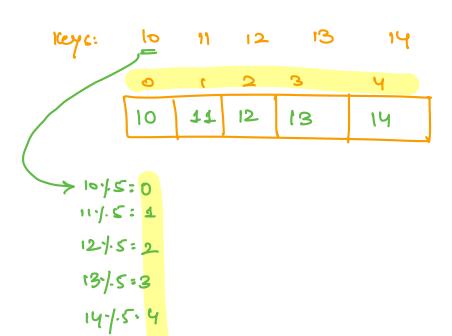
frd

(10 20 30 40 80 15 20)

fina (10) ? o(n)

final (15) ? o(n)

hach for! 1/5



Hash fox?

- keys %. no g briekets

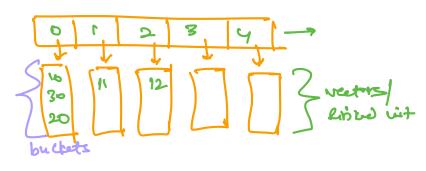
- (key \* constant) % no & buckets

Reyc: 10 11 12 20 20

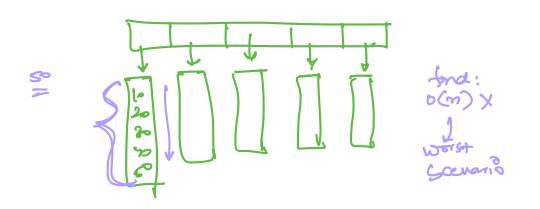
·/· 5



10:/·5:0 11:/·5:1 12:/·5:2 30:/·5:6 80:/·5:0



30 search?
20-15=0: search for 30 m oth bucket only.



Collision Reduction ?

2. Open Addressing - Linear Probing: Enpty State Server Sequetally

Duad ratic Probing

fashion

2. Obsel Addressing / Chaining,

linear Prosbring:

10	12	20	
10	570		
11	5=1		
12	5=2		
20	5=0		
10	11	12	20
10	11	12	20
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10	11	12	20
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10	11	12	20

9,5

