





Hashing

Course on Data Structure

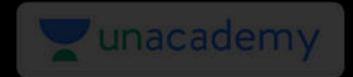


CS & IT Engineering

Data Structure
Graphs



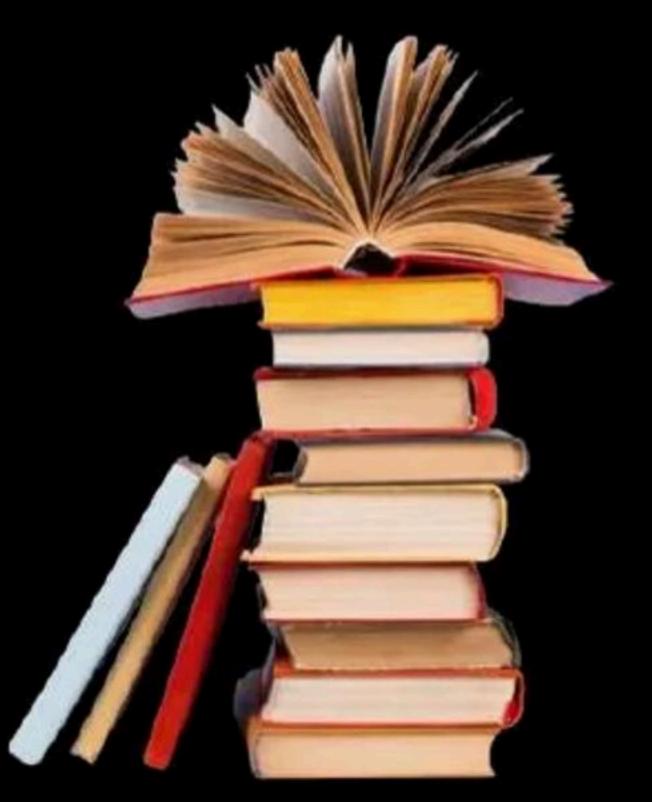
By- Pankaj Sir



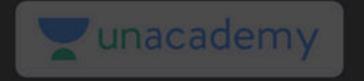


Topics

to be covered

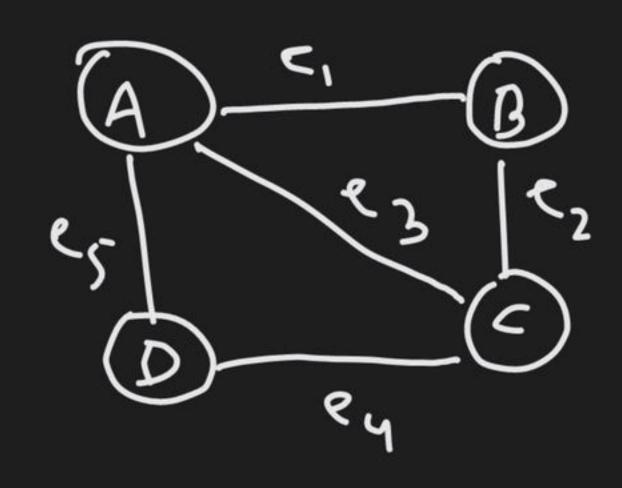


1 Representation of Graphs



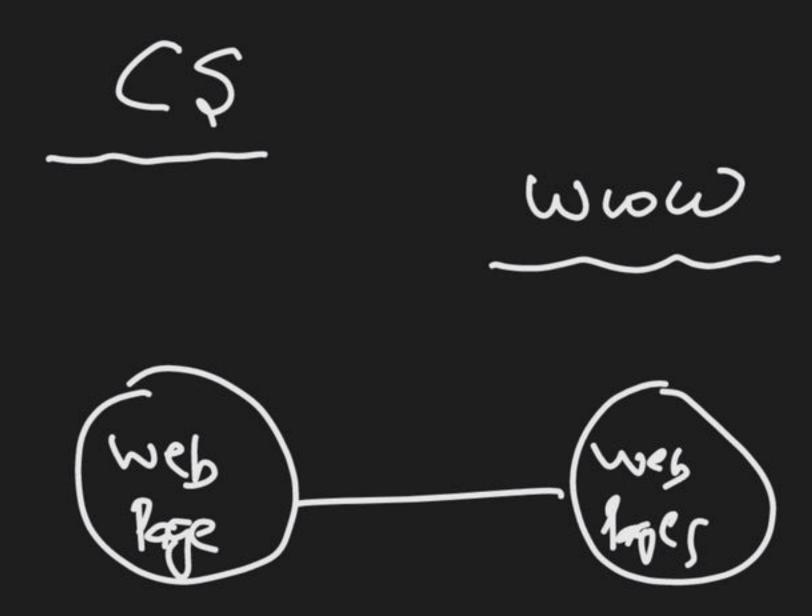
Graphs

Non linear data structure Gr(V,E) Set of edges set of vertices



V={An,(,n)} E={e1,e2,e3,e4,e5}





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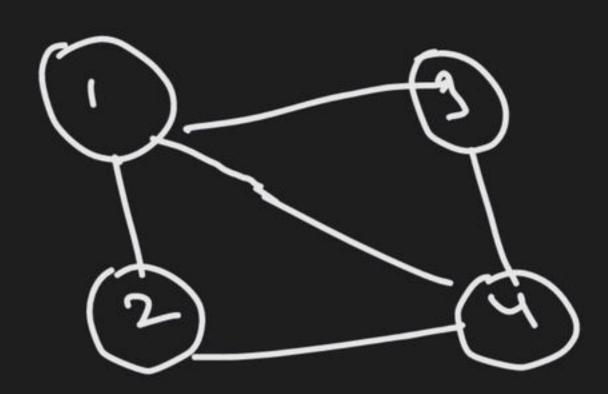
Graph Representation

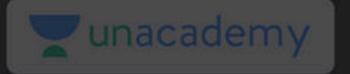
1) Adjacency Matrix 24 Adjacency Lisk

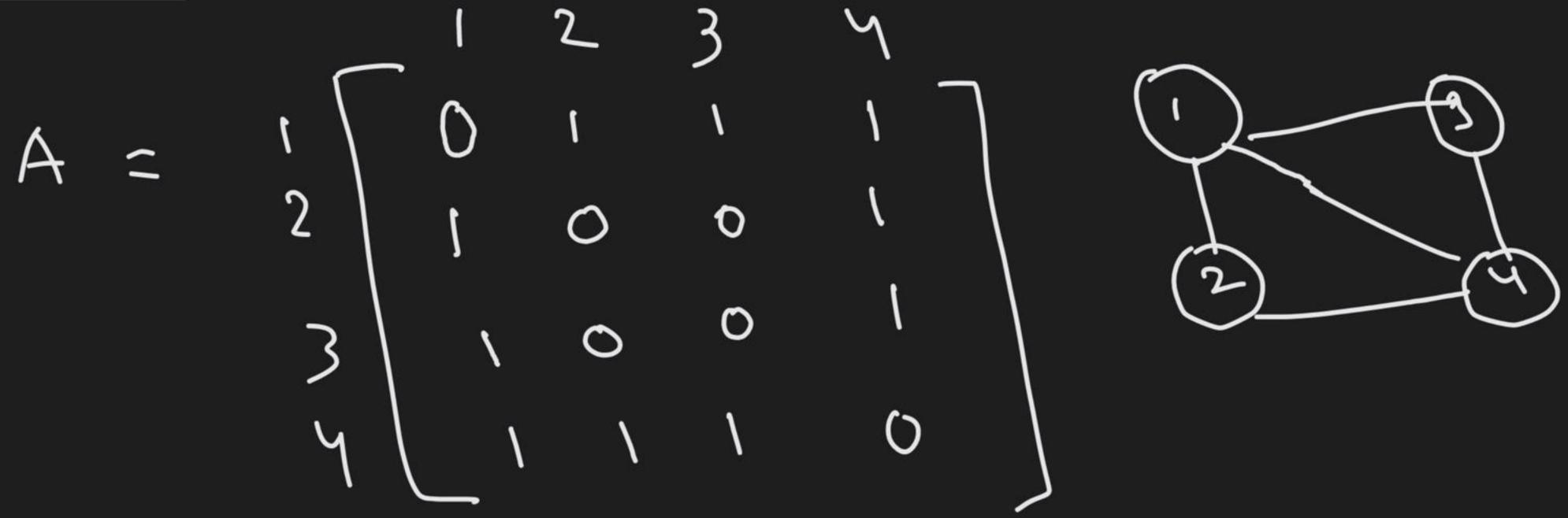
Adjacency Motins! nxh matinx, name of vertices

Each sury 20

Aij = 1 when mode i is asja (<n+ to mode



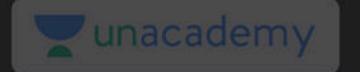


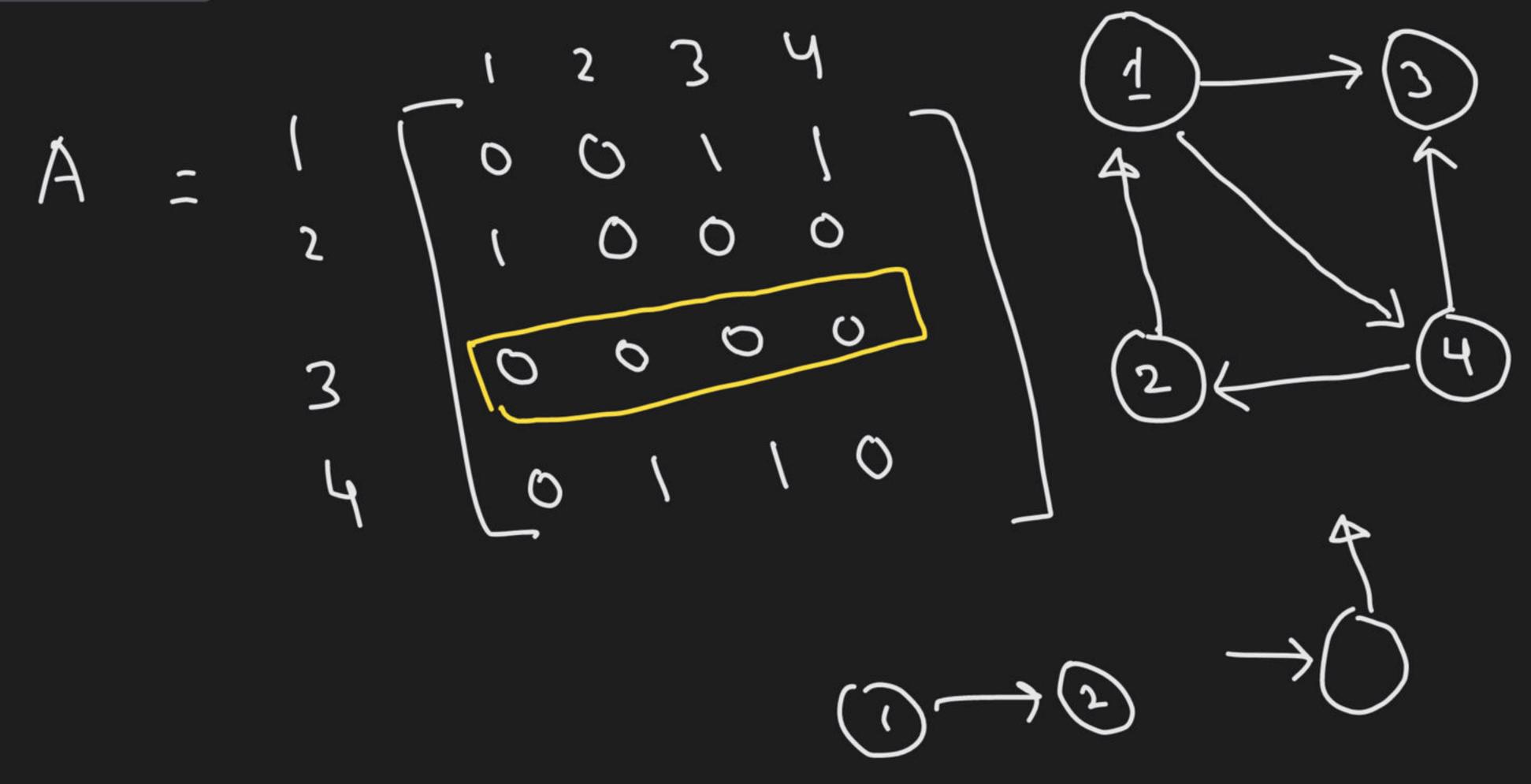


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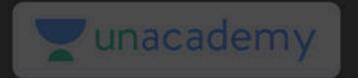
triend bid inectional follow

directed undirected edge





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(1)

Dense

Sparse

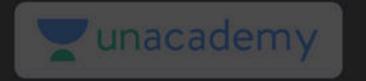
complete graph

0

(nxn)

Aan Matrice => 100 x 160

5000



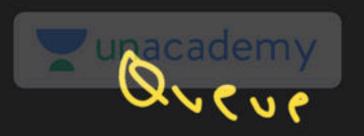
DFs DFs

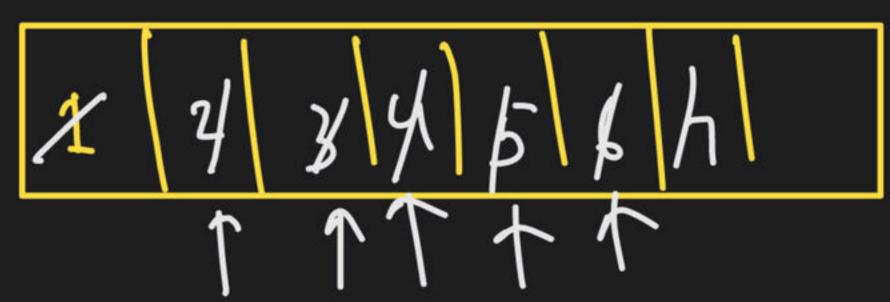
(i) Visit
(ii) Explore

Australia India

Qveuc!

5 /5ch.





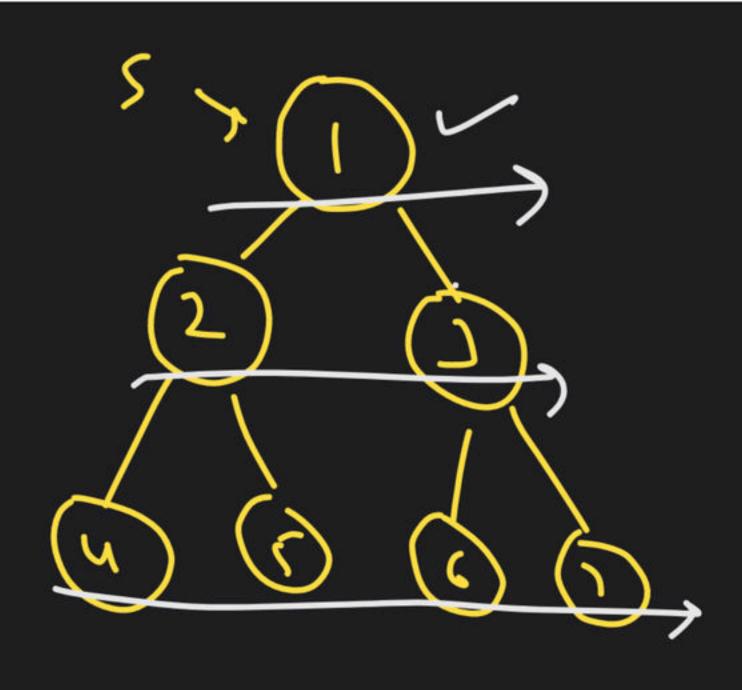
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brint (u);

ar.bran (ar-)(ft);

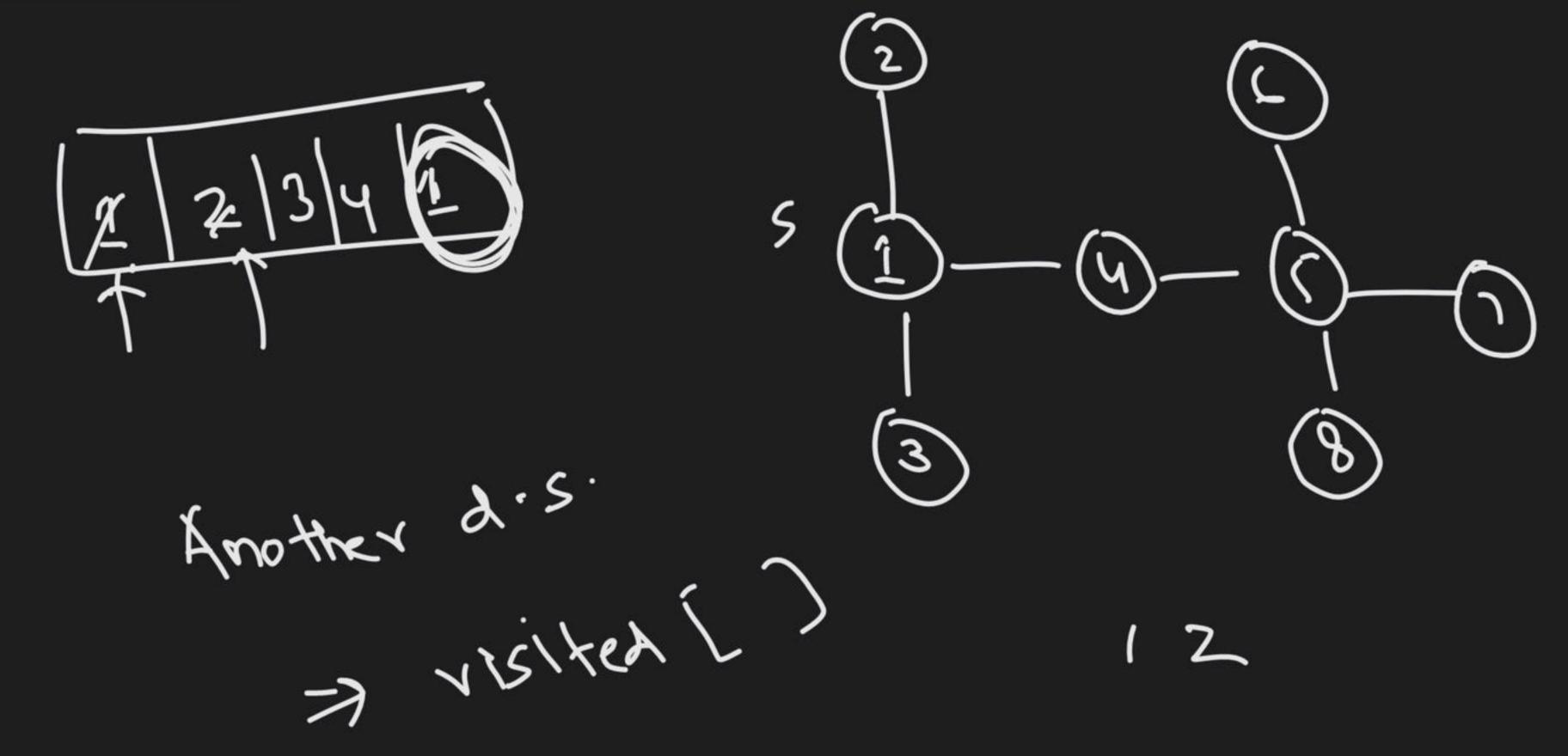
S. box (a reint!

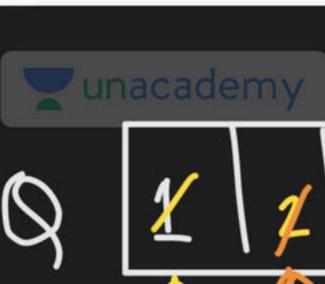


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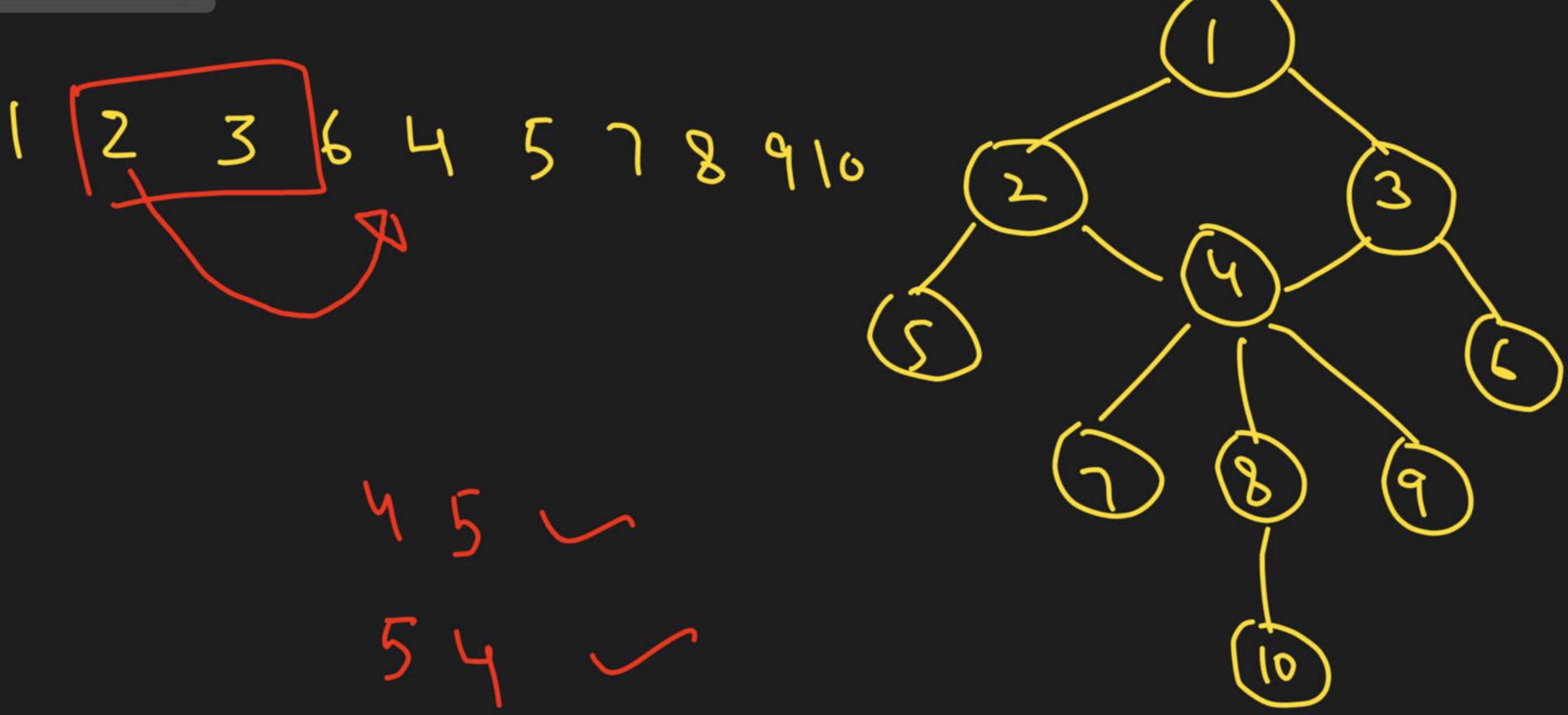




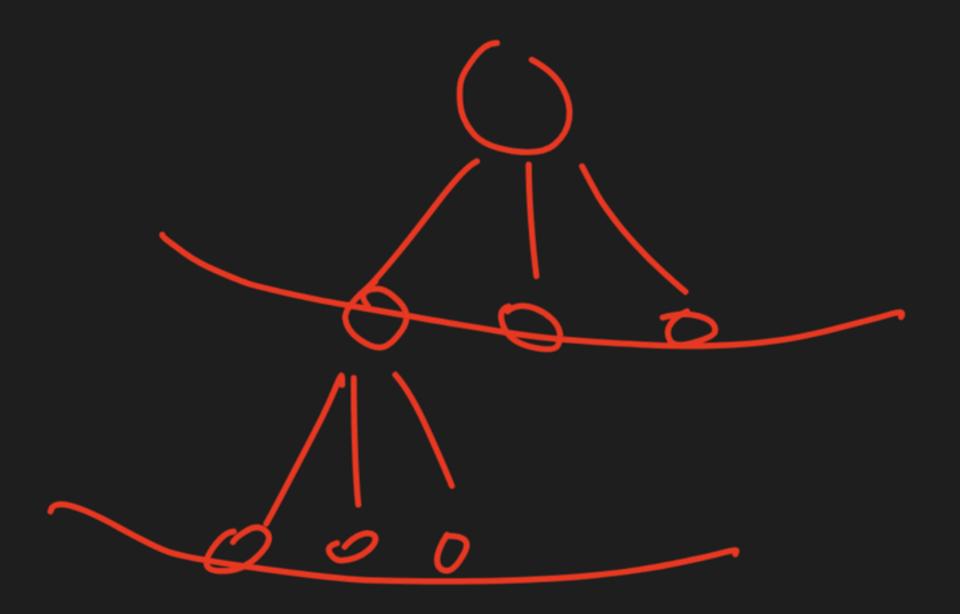


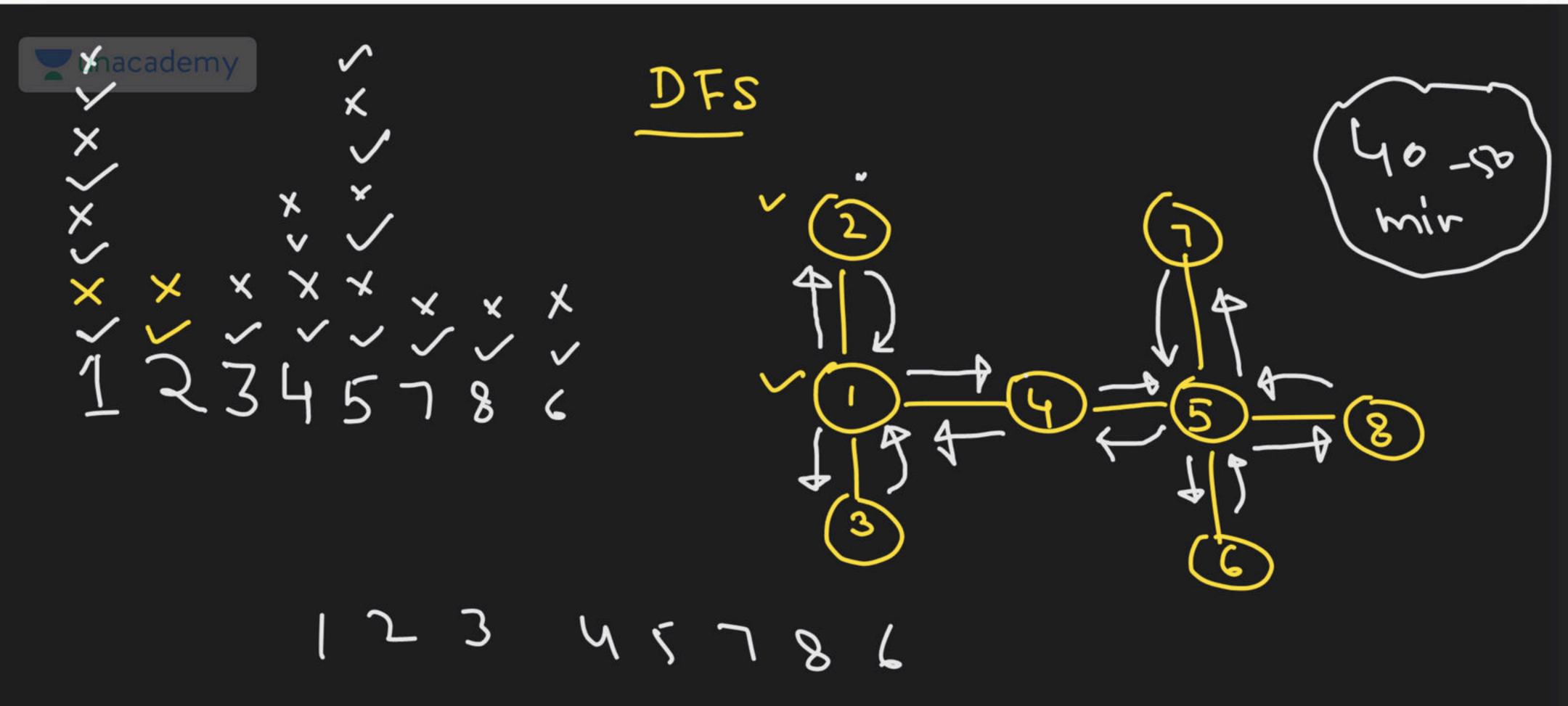
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THANK YOU!

Here's to a cracking journey ahead!