Graph Concepts & Qns

video-42

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Motivation:- 2025 is knocking at the door.

Are you ready to open it with your hard work???

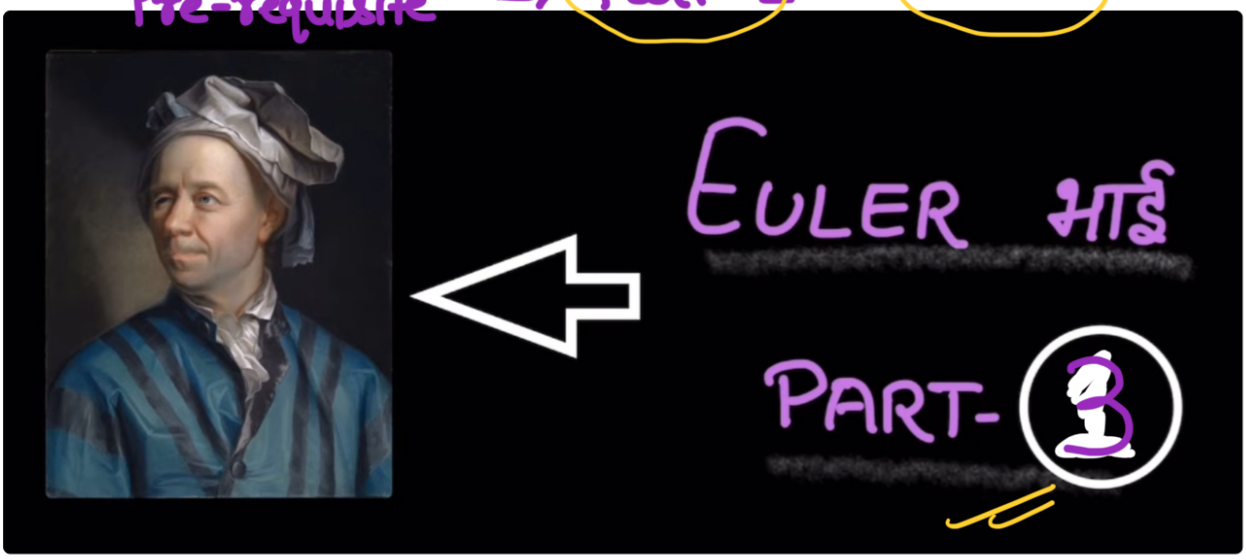
Every hour you grind today is an opportunity waiting to unfold tomorrow.

Let's make 2025 the year where your

MIK...

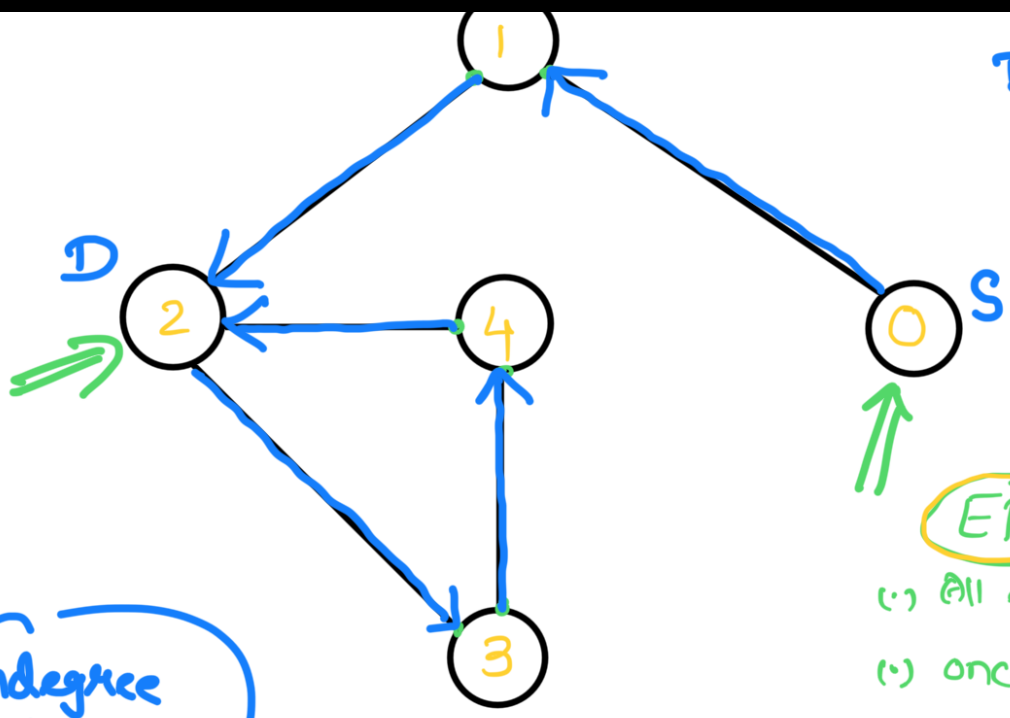
preparation turns into achievement, your struggles into strength, and your dreams into reality.

Pre-requisite → 40 Part-1 & 41 Part-2



Till now in Part-1 & Part-2 we studied Euler about undirected Graph. ⇐

Here are few things you must know for understanding Euler in Directed Graphs.



Directed.

EP Directed graph

(·) All edges visited

(·) once.

indegree
outdegree

Source

outdegree[node] - indegree[node] = 1

Dest

indegree[node] - outdegree[node] = 1

other nodes

indegree[node] == outdegree[node]

Finding Euler Path:

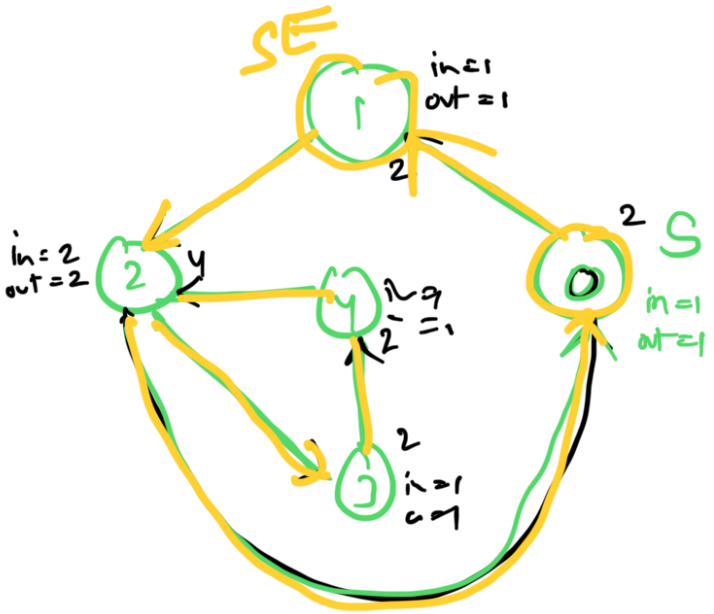
What you will do ???

① Find start node of Euler path.

```
if ( outdegree[node] - indegree[node] == 1) {
        startNode = node;
}
```

② If all nodes have equal indegree and outdegree, what will that graph be called ???

& what will be the start node of Euler Path ???



degree = even
"Eulerian Circuit"

indegree[node] == outdegree[node]

(1) If it has Eulerian circuit, any node can be starting point of the Euler path.

indegree[node] == outdegree[node]