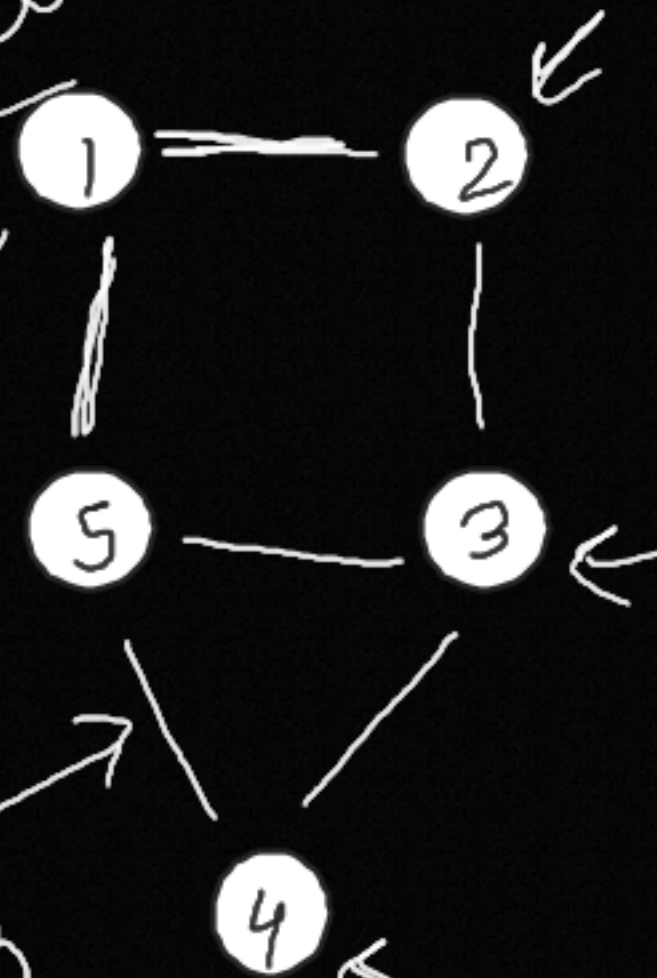


GRAPHS

✓ Undirected

cyclic graph

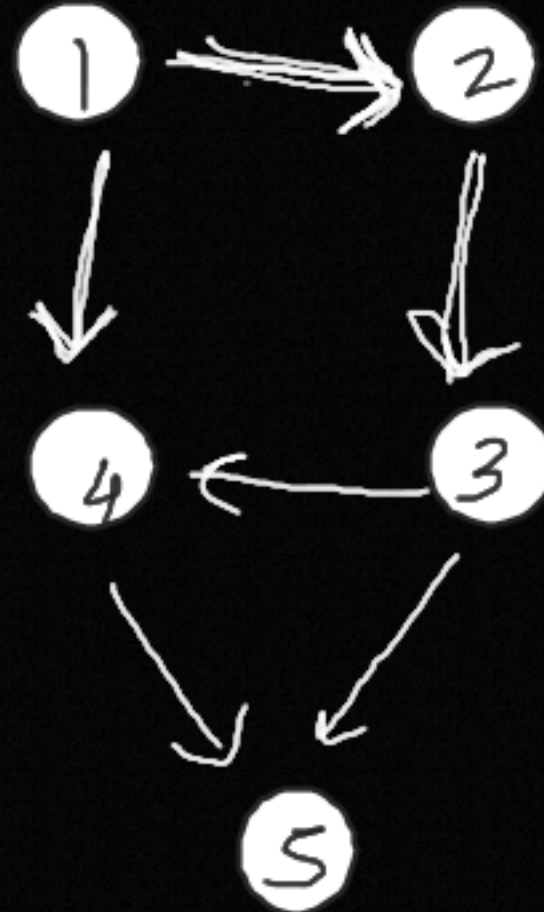


degree of 2
degree(5) = 3

edges

Nodes

✓ Directed acyclic graph



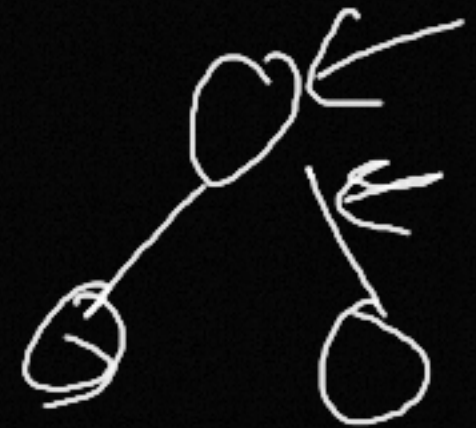
Node(1)

Indegree(1) = 0

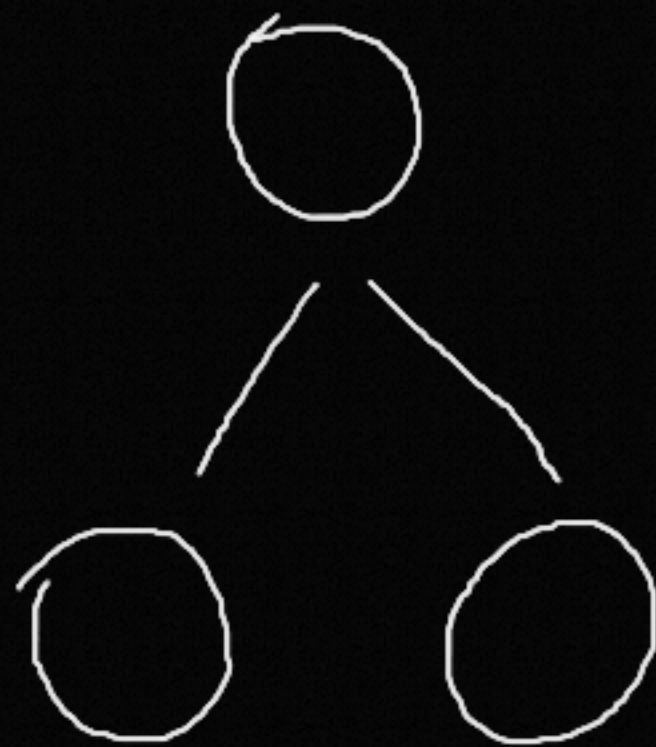
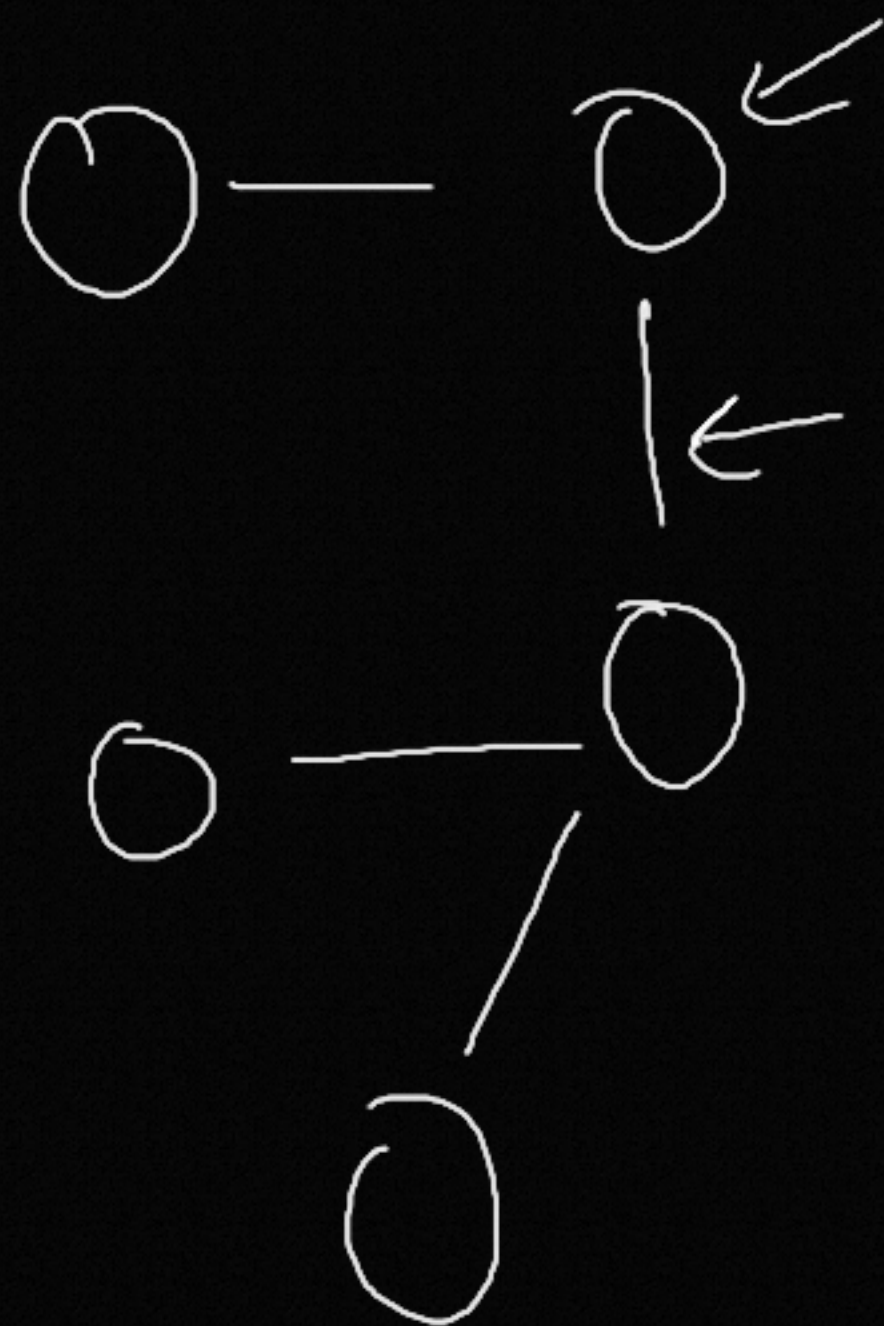
Outdegree(1) = 2

1. Types of Graph ✓
2. Nodes and Vertex ✓
3. Cycles in a Graph
4. Path ✓
5. Degrees in a graph ✓
6. InDegree and OutDegree in Directed Graph ✓

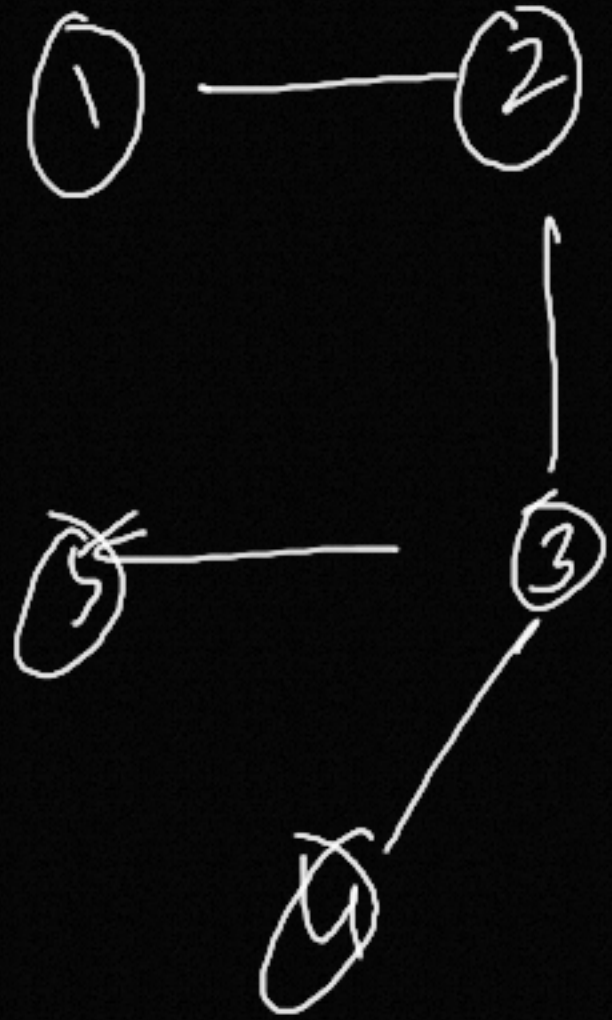
DAG



Cycle



Path: a list of nodes and each of them are reachable.



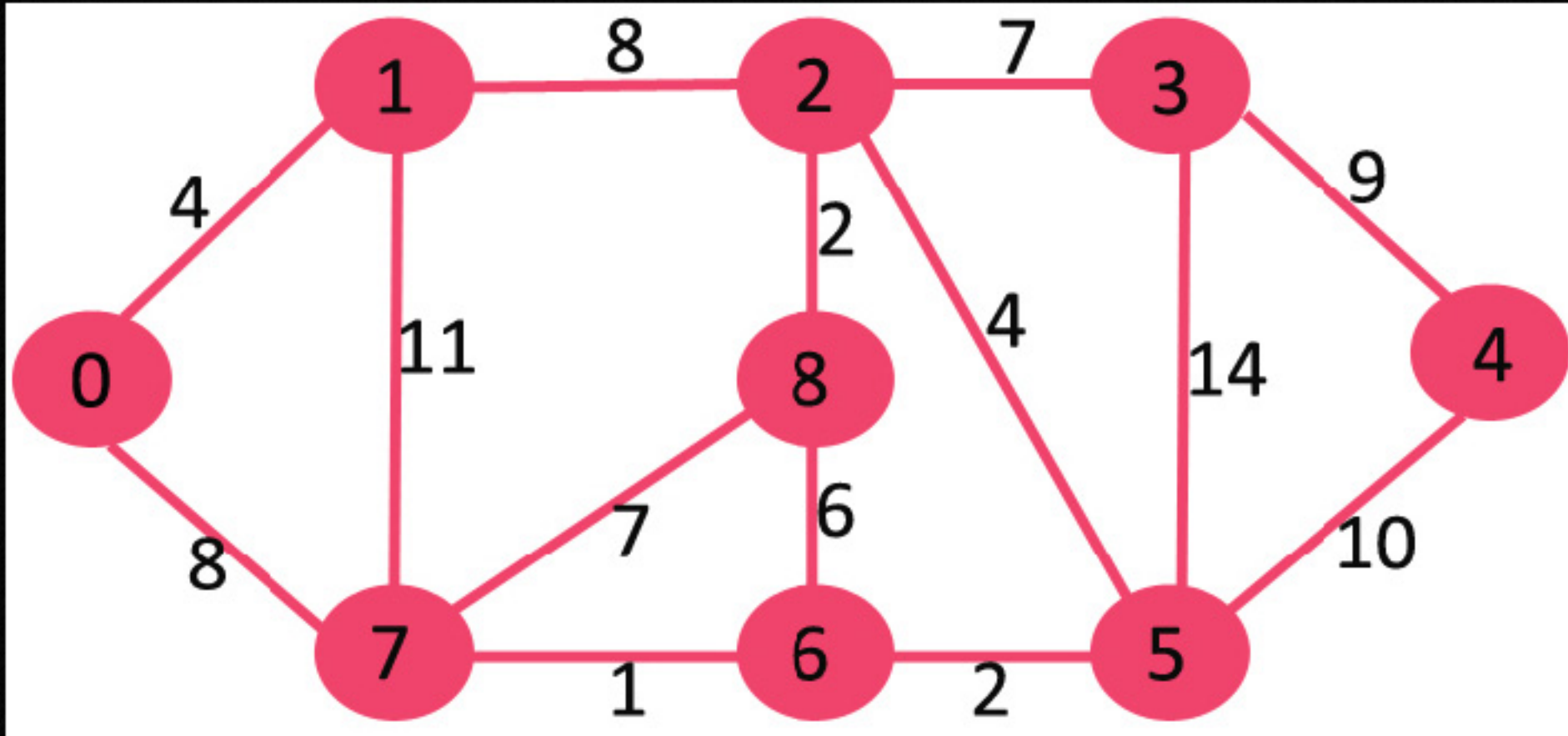
1-2-3-4 ✓

1-2-3-5 ✓

1-2-3-2-1
- - -

X 2x Nodes

Dijkstra's Algorithm



Given a graph and a source vertex in the graph, find the shortest paths from the source to all vertices in the given graph.

PRIMS ALGORITHM