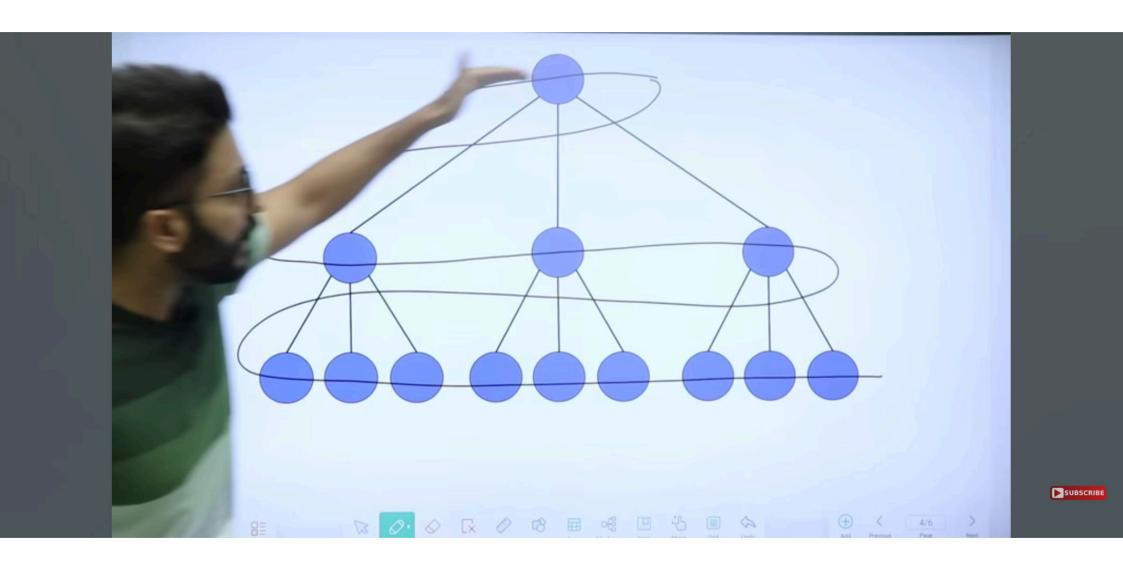
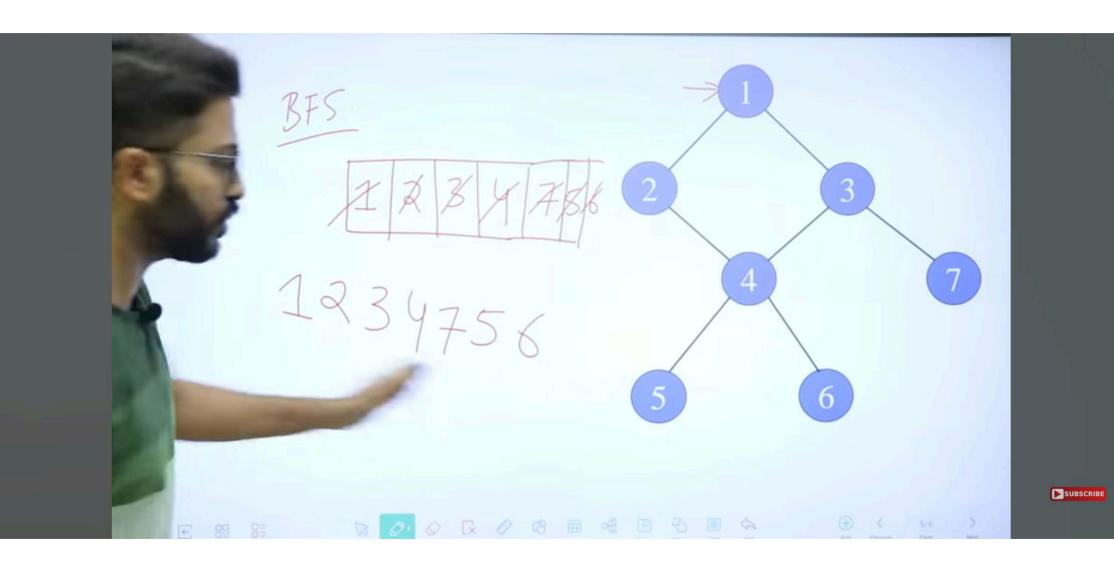
BFS - DFS (Graph Traversal)

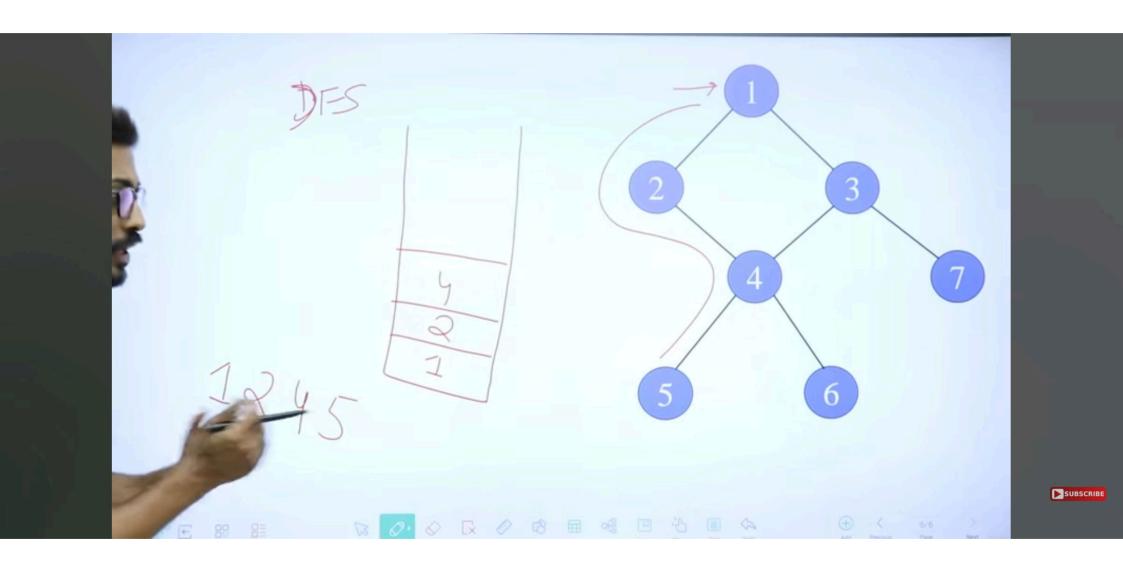


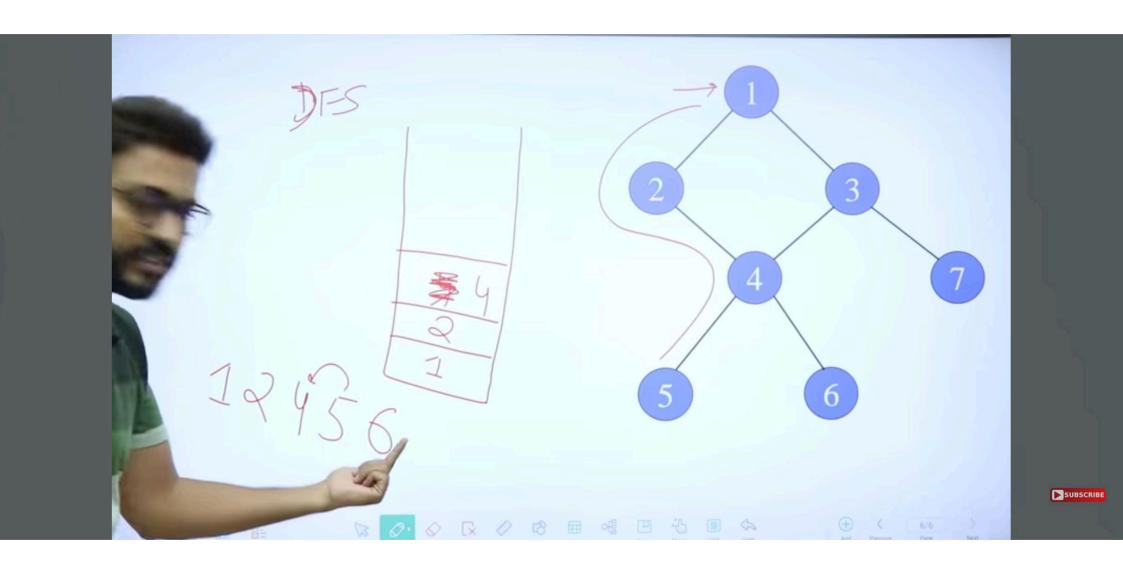
- The process of visiting and exploring a graph for processing is called graph traversal.
- Breadth First Search(BFS)
- Depth First Search(DFS)

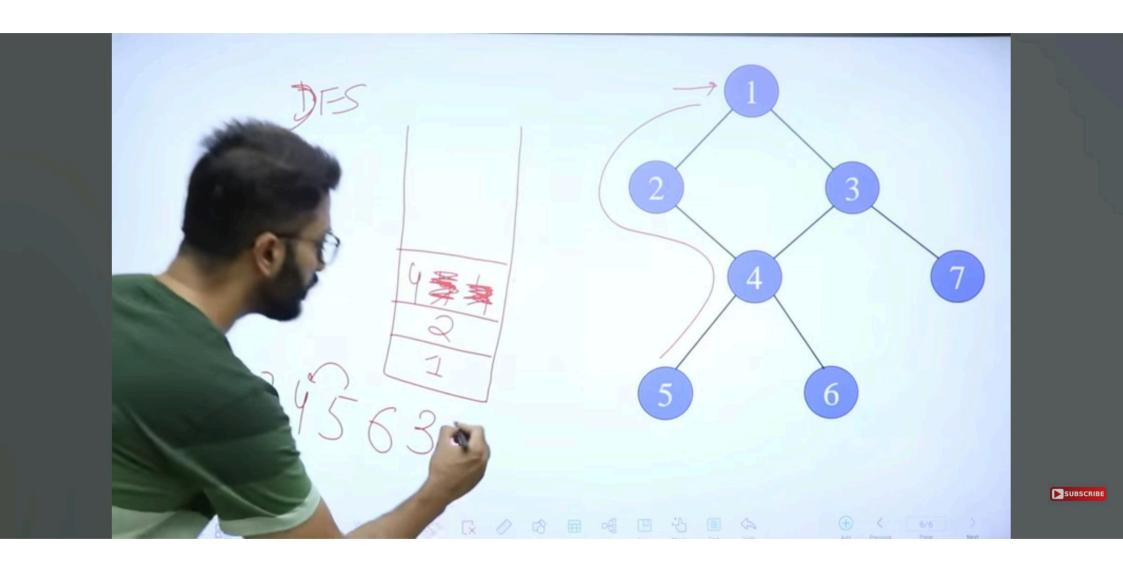


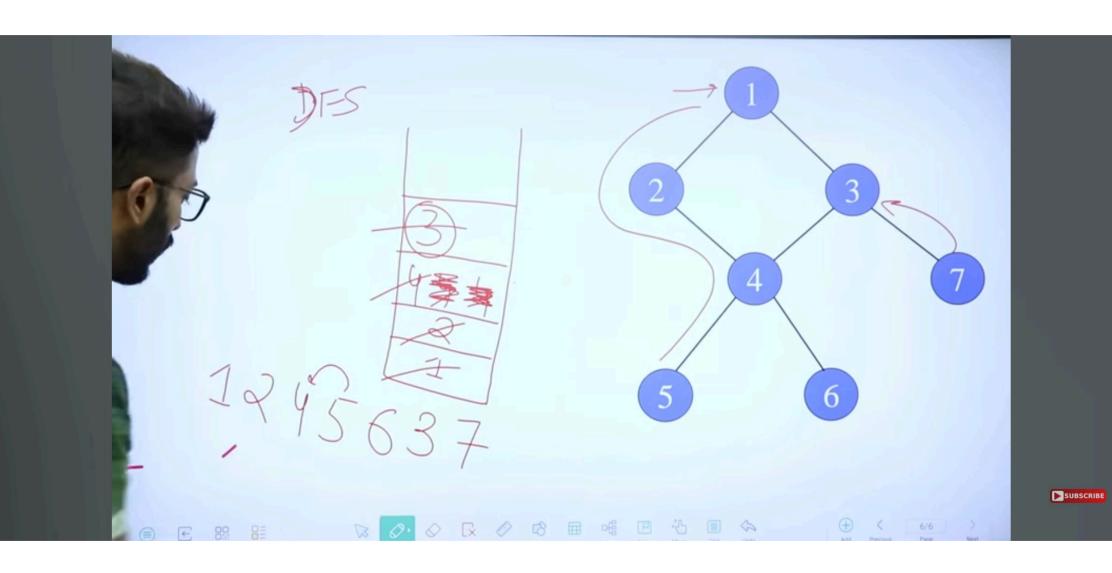




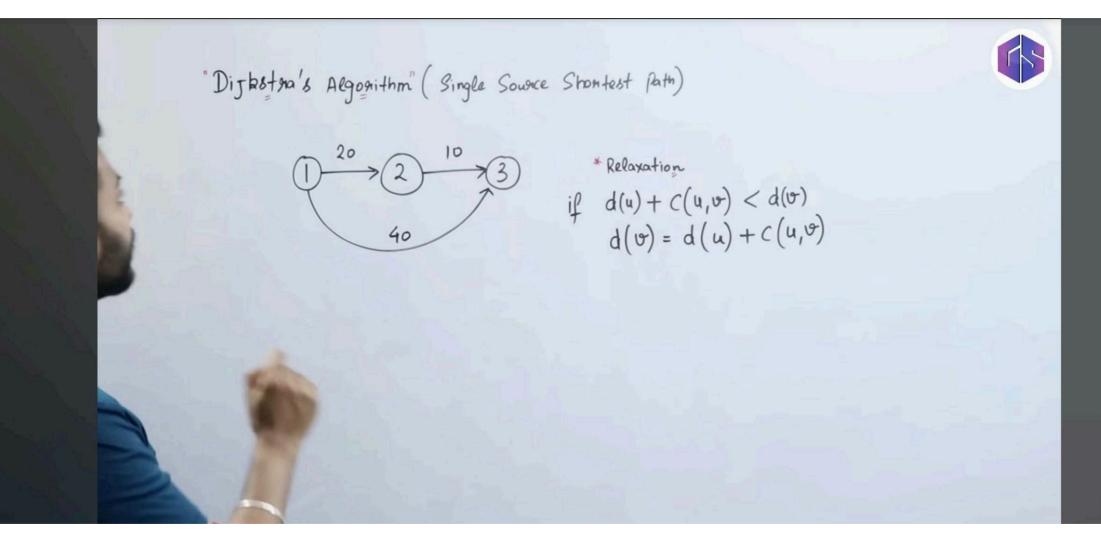


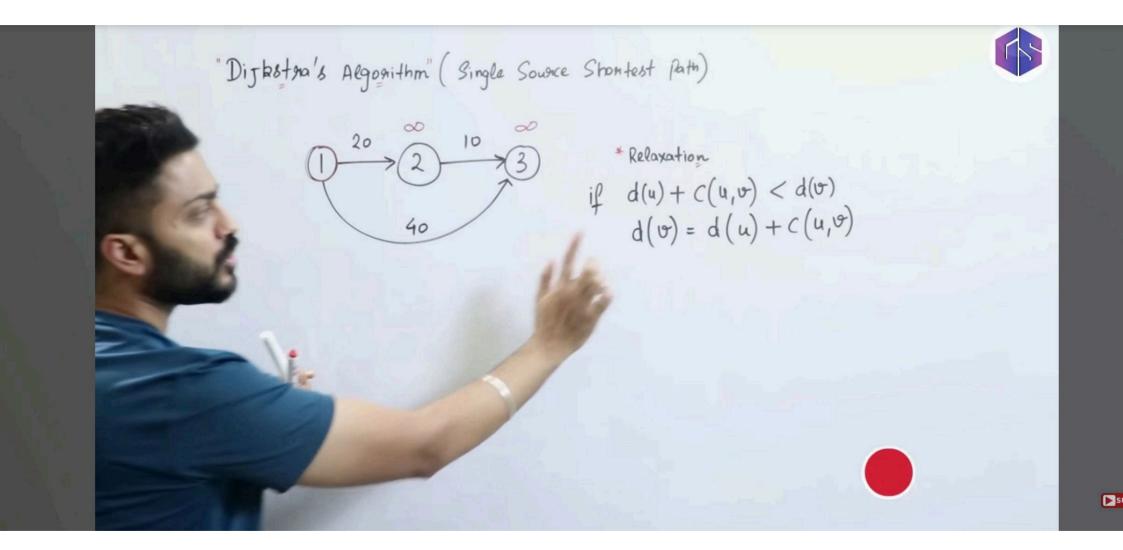


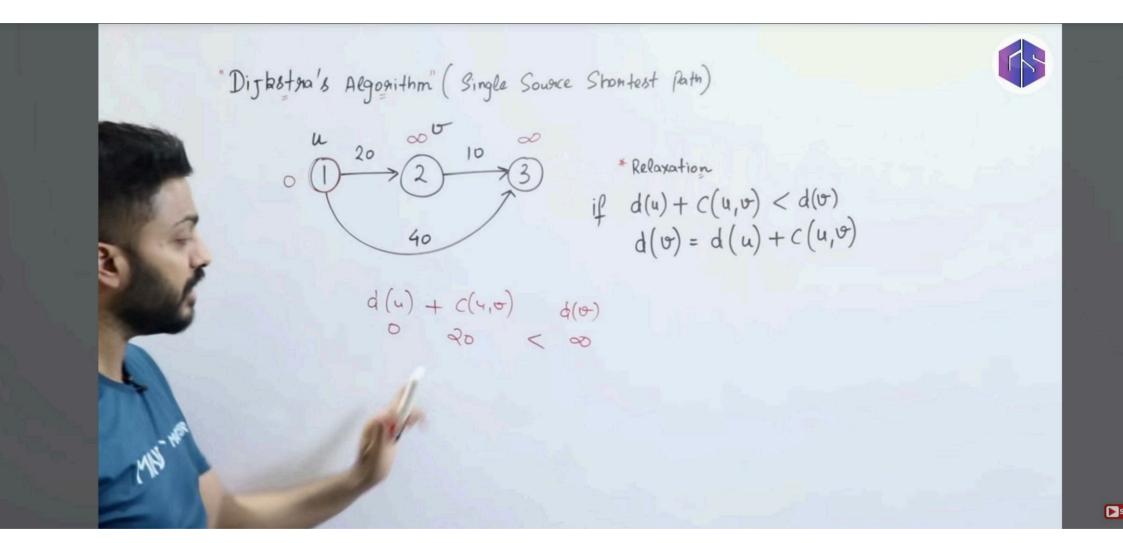


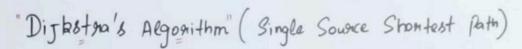


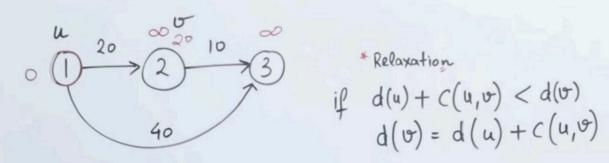
Dijkstras Algorithm









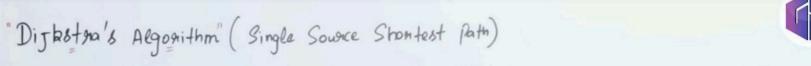


if
$$d(u) + c(u,v) < d(v)$$

 $d(v) = d(u) + c(u,v)$





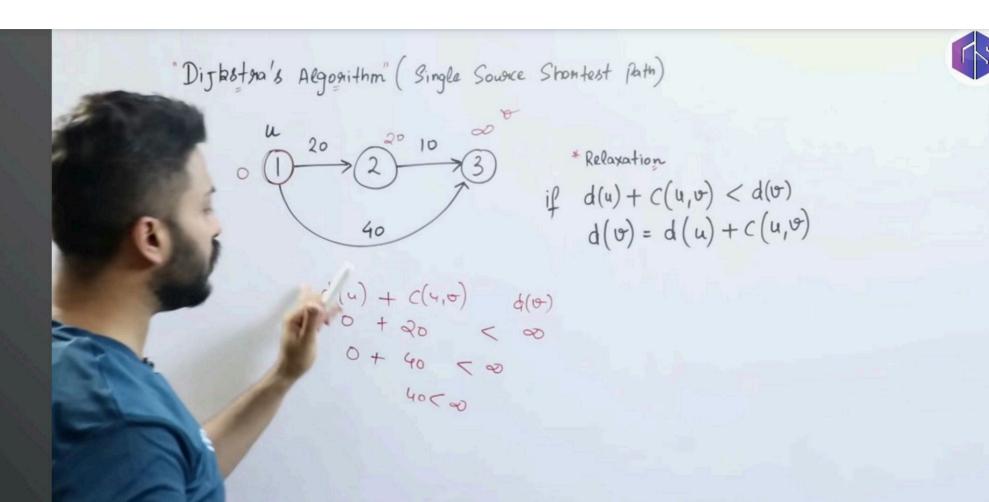




$$\begin{array}{c} u \\ 20 \\ \hline \end{array}$$

$$\begin{array}{c} 0 \\ \hline \end{array}$$

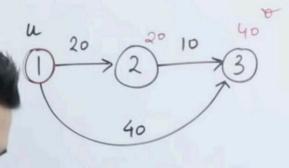
$$d(u) + C(u,v) < d(v)$$





"Dijkstona's Algorithm" (Single Source Shontest Path)



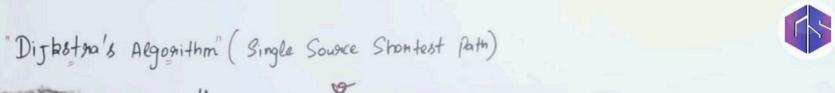


* Relaxation

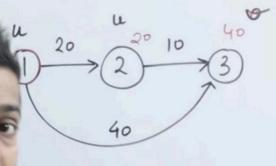
if
$$d(u) + c(u,v) < d(v)$$

 $d(v) = d(u) + c(u,v)$









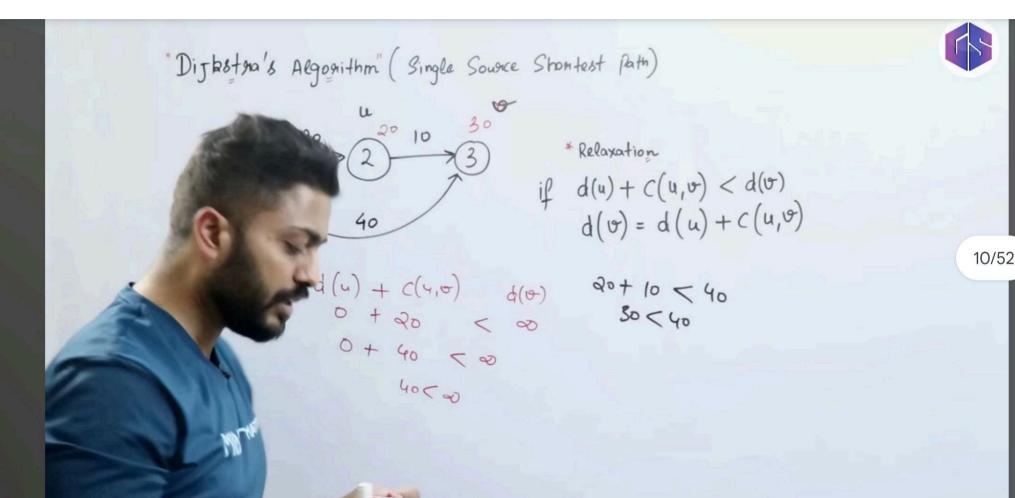
if
$$d(u) + c(u,v) < d(v)$$

 $d(v) = d(u) + c(u,v)$

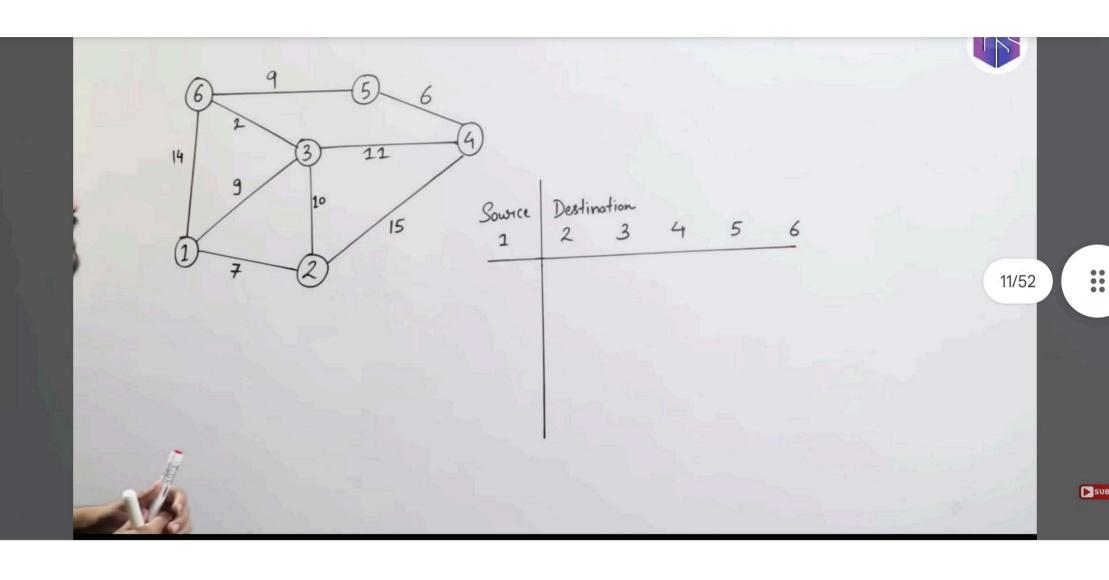


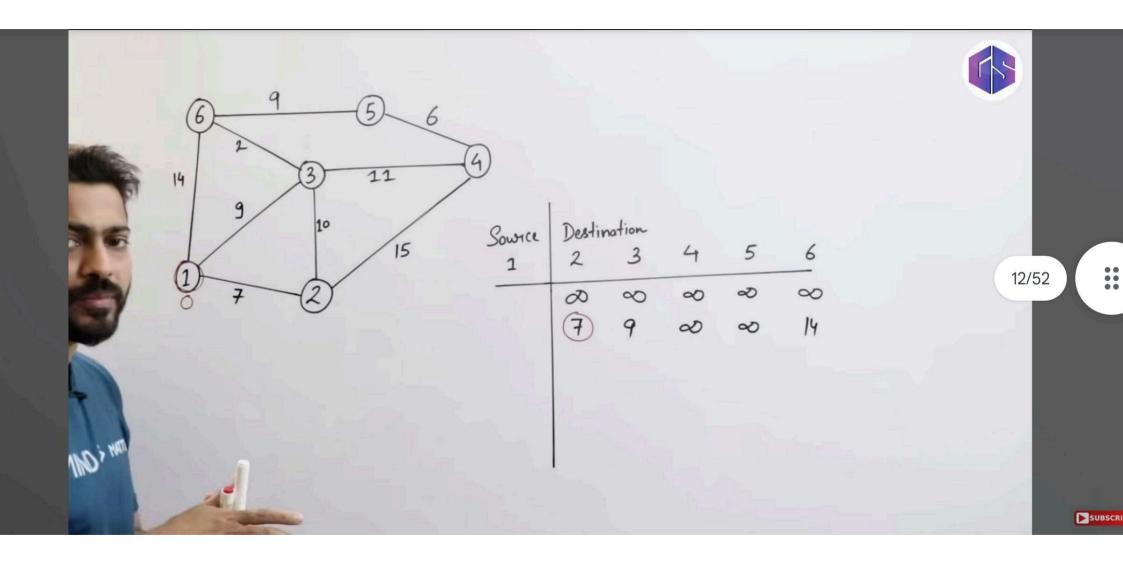




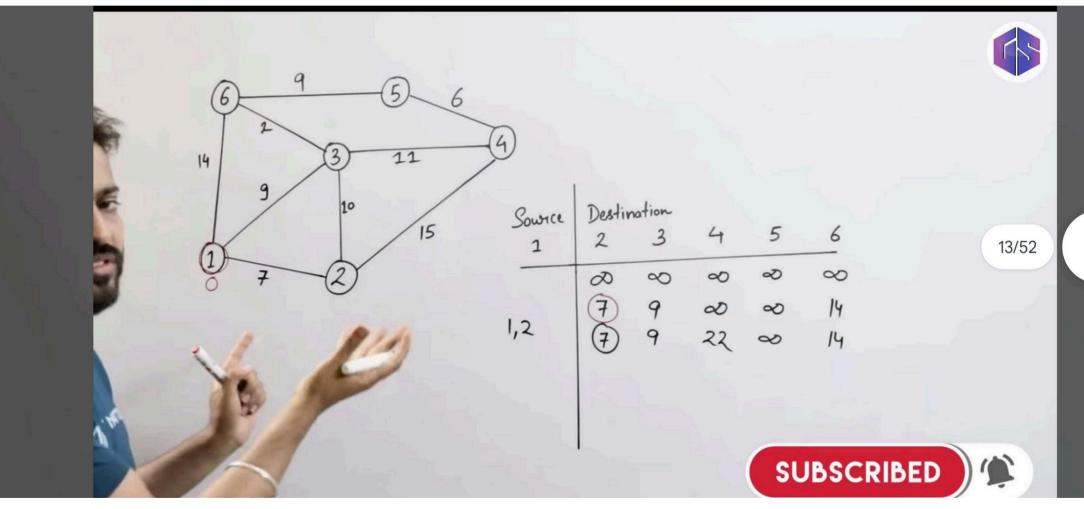


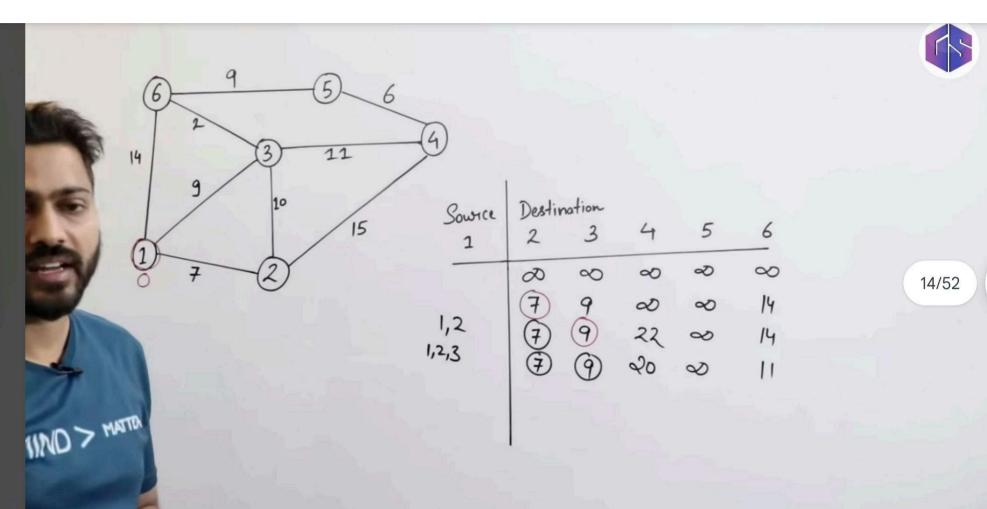




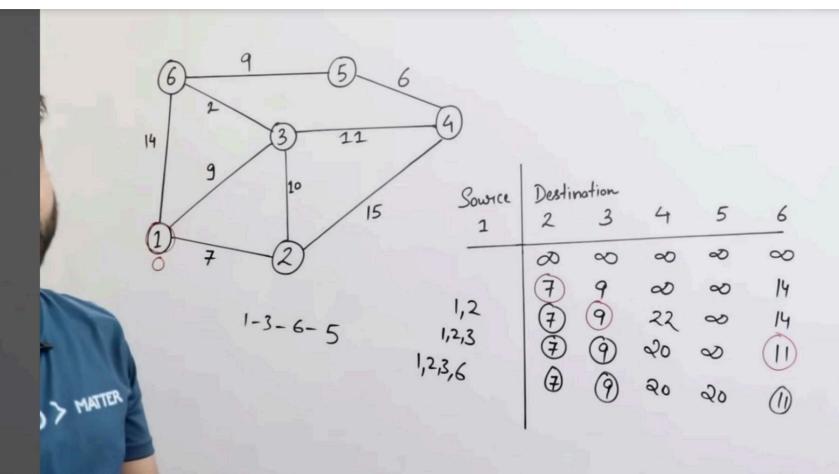




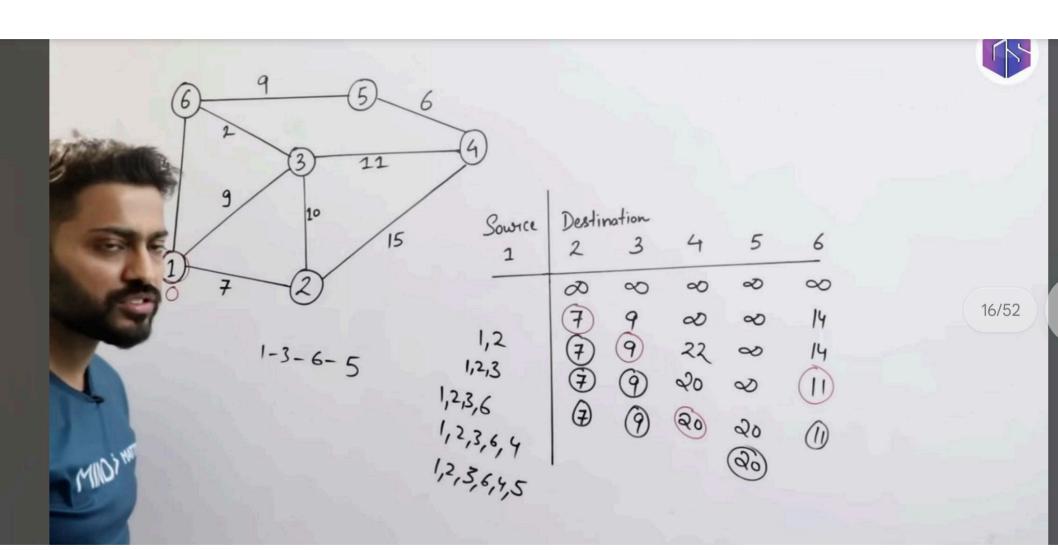




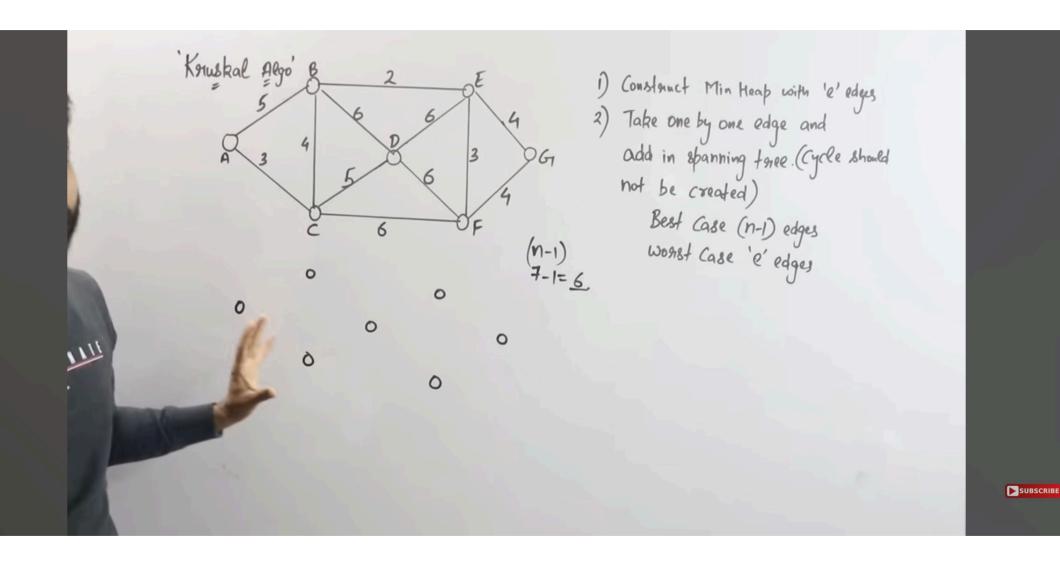
Su

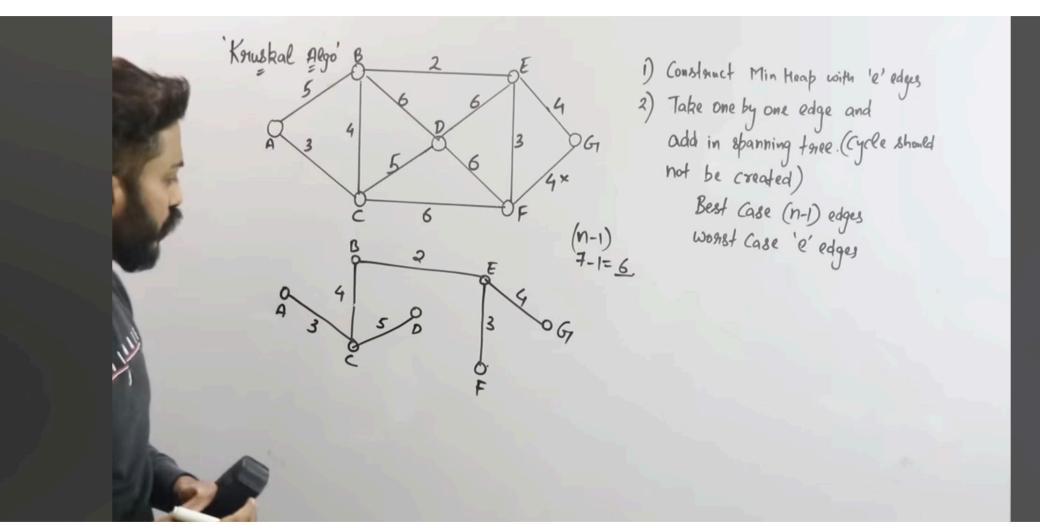


15/52



Kruskal's Algorithm





SUBSCRIBE

Cycle detection (Directed graph)

