```
Depth-First Search
    depth search
     depth = 0 > depth = 1 :
                               DFS(G.D)
                               DFS(G, 1)
        finish one path
        backtrack to node with another path
                                       search nodes in graph
Breadth-First Search
     using queue
      enquene first node
        dequeue one node vif have adi...) if queue length +0
      enqueue adjacent nodés)

it no ... if =0: stop
  Dijkstra's Algorithm graph: shortest path from A to B
      initialization: Q = (A: O), (B: \omega), (C: \omega), (D: \omega)
       iteration extract vertex A, update vertices B.C.D...

Aid=D, Bid=1, Cid=2
                    Q=(A:0), (B:1), (C:2) ...
```

delete extracted point from Q

Graph Ford-Fulkerson algorithm Network Hew initial network (G) residual graph (GR)
flow/copacity
flow iteration Augment path: A-B-C-D > Flow = Flow + network residual graph
flow/Capacity flow in different direction Edmonds-Korp Algorithm Graph network flow iteration path with fewest edge path < S, VI, V3, t> residual network final result residual network + flow network Yrim's algorithm Tree: minimum spanning tree in graph find minimum -weight edge if form cycle else pick it and insert in new graph Kruskal's algorithm sort edge's weight in increasing order

pick first edge > insert > pick next edge if form a cycle, skip else, pick it and insert in new graph