BFS

DFS

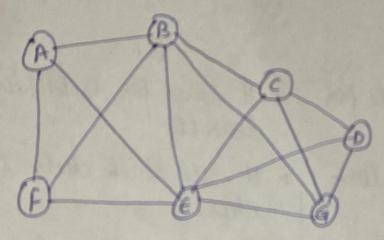
- * It stand for Breedth for Slarch
- * It uses que u data stouc -twee
- * It is more suitable for searching
- * Here sibling are visited before children
- * There is no concept of hack tracking

- * It stand for Depth first Sear U
- * It uses stack doctor stores cturi
- * It is more suitable when there are solution away from source.
- * Here children are visited hefore Libling
- * It is recursive algo that use hacktracking

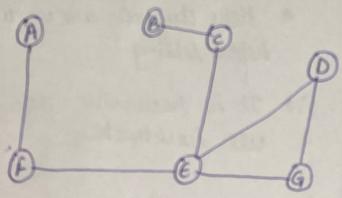
Applications

- · BFS -> Bipartite graph & shortest path
- · DFS -> a cyclic graph, topological order

Dequeu graph is a graph in which no of edge is close to maximal no of edges.



Dense Guaph (many edges blw nooles)



Sparse guaples (few edges how modes)

* For sparce graph it is performed to use Adjacency

For dense graph it is preferred to use adjacency

DAS

Path -) G ->F -> C -> E -> B

97

V= { a } 2 b } & c } & d } & e } & f & 2 g 3 & h } & i 3 & j 3

(a,b) { 9,63 { c3 { 63 { e3 { f} } { 93 - { lu} } { 13 { 13}

(9,0) {9,6,0} {d3 {e5 {+3 {e9} {e1} {i1} {55}

(b,c) {a,b,c} {d} {e} {f} {g} {h} {ij}ij

(e,9) {a,b,c,d) { e,f,g} { h} { is { is { }} { }}

chiis Ea, bed3 Ee, fig3 Eh, is [j]

No of connected components = 3