$$\frac{3^{3}}{10} \times \frac{3^{1}}{100} \times \frac{3^{1}}{100} \times \frac{3^{2}}{100} \times \frac{3^{2}}{100}$$

(0,1 x wins (0/1) N W W x's best wins oses More mure is (1,8) 5 best move is (0,1) (0,0)

Graph has e finite set of "Vertices". V a set of "edges" E & VXV Previous figure V = 4 a...h f  $E = \{(a,b),(b,c),(c,d),(b,e),(c,f)\}$  (b,8),(8,h) Road networks Vertices ~ Cities edges ~ roads connecting cities. Social networks vertices ~ accounts

edges ~ "f ciena" relationships.

A > B edge (A,B)

A "Follows" B.

Search" "De pth-first Depfh-first

c d l t also a depth-first Search tree of the Same graph.

a b d C e f Not Possible! Why? Because from d, we would go to one of e or fin a DFS.

Draw DF5 47969

Start from 0.