Tuborial 6

As we know the choice for iteration of next node is done from the children of the current node nather than exploring fellow node on the same level.

So, to do this, & DFS Uses FIFD daba standare which can be 'stack'.

Backbacking in IFS is done when a node that's already been explored is encountered is ignored & other that node is chosen

2) Diameter of state space is the longest shortest (non-repetative) path in the set of shortest path between pairs of states.

Depth Limited Search, we limit our search till certain depth. This sets the diameter which can be though as limiting our search space as per the diameter.

a) BFS: We travel layer by layer simply with no privrity to any node from the same Time complexity: O(bd)

Space complexity: O(bd) d: defth b) UCS: We traverse next node as per least cost & this will continue while backtracking also. Also, if cost of each node is some, then there would be no difference in UCS2, BFS. Time complexity: 0 (b'+ c/E)

Space complexity: 0 (b'+ c/E)