	DatePage
	Day - 199 Graph - 3
*	BFS Traversal:
	(13)
	(12) $(1)$ $(2)$ $(3)$
	(4) (5) (6) (7)
	8 9 (10)
<b>=</b>	BES Traversal is like starting from one hode and then traverse the connected nodes and again do the same process.
= <del>)</del>	(we are starting from ()
	$\rightarrow$ 0
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
4	BFS -> Breadth First Search.

L-2 L-3 Ex21 012573468 (we will only visit hon-visited nodes) So, we will get to know that we have to use queine here. So, heighbours info, got from the 7 adjaconces list. Also, we will take an enray of size equals to no. of nodes in the graph so that we will know which hade is visited on not. So, the flow will be like this -Put the stanting hode in a queue.

Make a visited array.

Then pop the element from the queue & push their neigh bours in the queue. And only non-visited will nodes Also, make the visited of that node to 1. =)

Page . Code vector kint > BFS Graph (int V', vector kint) 4 adj[7]{ queue sint > q; vertion < bool > visited (v, 0); q. push (0); visited [0] = 1; voctor (into ans) while (quempty ()) { hode = quihont (); an pop(); are, push back (node); forlint j= 0; jx adj[node], size() jol if ( visited [ad [node][]] ]) g. push lonck (adj (node? (; 7)) visited Ladi [node][i]] = [i] noturn ans; S.C. > O(V). T.C. -> O(V+2E) -> O(V+E) = BES is used when we search our any anyone on the social medias.

Date Page DFS Traursal: to moa 1 (ASS) UP (Del.) (ken (AP) We will start from a node and go to 1 the depth of that node and after we reached the end of that side, we will go back to the previous hade & explane Dital ather paths. God, Mumbai, Uk, Kenala, AP, MP, Delhi, UP, Punjab, Assam. So, we will given a adj. list. = we can solve DES by using recursion and stack. Alson we will need a visited array 7 So we will visit all the heighbours of a nado ono by one. If all the nodes neighbours visited than back to the previous node.

