Ans to the ques no ; 40

For adjancency list (which of have wed for task 2 and 3) Time complexity will be,

V = number of vertices

V = number of vertices

E = " " edges (V) 0 ad bloom

In BFS, the first white loop will run until

the queue is empty and it will happen when all the

ventex is visited. And, for loop will run for every edges

of that ventex. So, the running fine,

o(ventices + edges)

gf, g used matrix then it would be $O(v^2)$, because gt will do iterate all the <code>[i]Ci]</code> th element (even if the <code>[i][j]</code> element is O).

For DFs, we identify all of it's adjancency neighbour nodes by crossing its adjancency list. Here, also, and each vertex and edge is visited once so, the time complexity is also O(V+E), also, also, then for this time complexity would be $O(V^{\perp})$, same as BFs.

Output (BFS) line to be still be primary sit of path bottom is some of the primary sit of some tout to the period of the primary sit of some of the path of the primary sit of some of the path of the primary sit of some of the path of the primary sit of some of the path of the path of the primary sit of the path of th

Know that, to find the shortest path by nodes of a nodes of a level of in graph then go to the next level, whereas in DFS, it goes depth of a graph and then return to previous level . So, in to be at sofe side BFs can give us shortest path. though here, Grany can get to the victory first.
road by traversing DFS