25E 221 Lab(5)

Problem 5

when the grath is represented as a adjacency list the time complexity for both DFS and BFS are o(U+E) when vis vertices and E is edges of the greath.

when represented as adjacancy mothix, for checking of an edge exists, between two vortices we have nun through all the vertices in the avoist case which is o(v). So the time complexity for which is o(v). So the time complexity for traversing a graph representing mother ton both meanings o(v) time complexity for both services o(v).

BFS will get the victory nood because it finds
the shortest path by going through at all adjacent nodes.
Where BFS goes through deep which may take time.