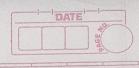
Dir A Batch C Eapt7 2023300038 David Daviels



Thus in this experiment. I have implemented ford fulkerson algorithin in kno ways, with DFS and BFS. The search algos are used to find valid path in derected graph from source borink. A handonly generated graph of 20 vertices has been reated, with randonly chosen Source, sink. The path taken in each search of early varible. The BFS algo were significantly more paths than DFS la get to the arriver, but both the asswers are same

Time complexely

. BFS itself takes O (V+E) for each search

' The man number of paths possible is bounded by O(EXV) because each pick inverse flow, reduces

Sesideral capacity. 17C=0(E.V2)

DFS Aself bakes O (V+E) bine for each search

The number of paths that can be paked can reach O(F) where Fis the man flow value.

T. (is O (E. F)

BFS is better for larger imputs, DFS is better for Smaller ones. Sime the graph choser has so vertices who 30 To density, It is small and DFS is better