None: Pronto Roy TD: 22301261

CSF 221 Explanation Lab OS

look-1 (a)

Here in this task I made a adjacent 19st and Pt. is oth main graph. Then I used is cyclic function if there in a cycle in the graph by DFS. If I find I Print Impanible else go to the DFS topo on topological Sont. est there when even a node is fully. Visited and there is no way to go I appoind a stack and then pop then revenly to get the output back to best out at

In this task I used whoms also with. I take a indegree array for the Linding the Pament. and . Child nodes, Then I stone then irn a queure If the length of graph and length of topological order is not some then them will be a cycle present. which mints impossible this

If Possible the I pop the queen and Stome Pd in order and thus by Possible id I got my output

Task - 2

Some as task (6). I just modified
Whom's algorithm. I just used a new Priority
queue to implement and Print lexicognethially
Smallest Sequence.

e donner not you (lask -3) daubs on is

In this teak I ested Kosarayu's

Algorithm. Firstly we do do on the

gnaph then therepesse the gnaph and do

the an that transposed gnaph. Then I stone

the values for a stack running of in the temspose

greath and nuturn, whomever its group that,

our SCC.