DATE: / /

Task-1A

I used the ideo of topological sort to
Solve the problem first: Convented the
input file into adjacent list. I stored
all courses with prenequisite in a different
Set and then find out the difference.
By these way I figured out which courses
does not have propaguisites. Then I pan
dfs on them and stored done one in
result owney then I checked whether
there's a cycle and printed Impossible

Tused the idea of kahn's Algorith (using Bfs) to solve problem to I Created a dictionary to stone how many prenequisite that cours have. I create a queve with courses has that has no prenequisite. Then I dequeve one by one ard stored in regult array and reduce indegree for all its adjacent nodes lastly I printed Impossible if the result array has more I less course then inputs.

DATE: asz-2 I used the idea of khan's Algorithm Lusing BFS to Solve problem. I creat-dictionary to Store how many prenegoisite that course have. I create 9 queve with that has no pronequip then I sorted the que up the lexicographically Smallest valid Course sequence: i Lequere one by one and stored then In result amongy. Task-3 I perform DFS and push complete hodes in a Stack. I transposed
the graph of again perform des
but these time I puped items
from stack and stored visited that carray in another list. I continue until stackering one strongly connects components