- to store the sequence of nodes in the topological order to store the sequence of nodes in the topological order. Once a node is fully explored, it is added to the end of the topological boder array after all its adjacent hodes have been explored. Additionally the code includes a cycle detection to ensure that the graph is acyclic. Than prints the topological order in an output file.
 - 1.6. This code solves the problem of finding a topological order using BFS. First, all the nodes with an indegree of 0 are placed in a queue. Then, one by one, nodes are dequeued and their adjacent nodes' indegrees are decreased. If any adjacent node's Indegree becomes 0, it is also added to the queue. This process continues until the queue becomes empty.
 - 2. This code works the same as task16. Here, we are Just using a built-in priority queue to sort it into a lexicographially smallest valled course sequence.

3. This code solves, the strongly connected compenent problem. First, it maintains a stack. Once a mode is fully visited, it is appended to the stack: Then, the entire graph; is reversed. After that we iterate through the stack one by one, adding nodes to a strongly connected component as long as they can be reached in the therersed graph the use a checker to dutermine It a node is already within another noders strongly connected list or moters in 18670

I b. This code solves the problem of finding a topological of it