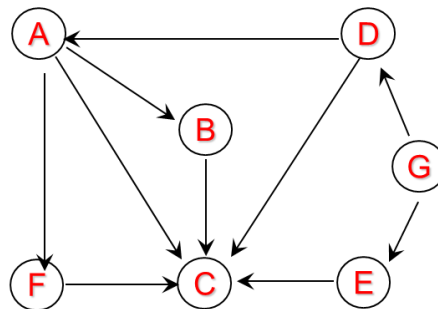# United International University

Department of CSE

Spring 2024, Data Structure and Algorithms-II (CSE 2217)

Assignment

1. Let the number of buckets (divisors) be 19. Put in the following keys in their corresponding home buckets: 1, 13, 17, 57, 21, 0, 99, 157, 34, 76. Detect the collisions (if any) and resolve by chaining. [points 2]
2. Perform topological sort on the following graph starting at node B: [points 2]

3. Suppose we want to traverse the following graph starting at node A. What could be the two possible orderings if we use *BFS*? What if *DFS* is used? Show all the steps. [point 1]