

## CSE 310 Recitation 11

### Objectives:

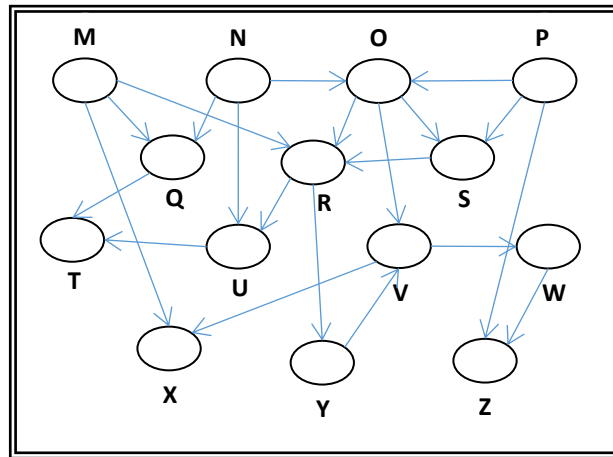
1. Topological Sort

### Rules:

1. Except for diagrams, charts or tables, answers MUST be provided in typed form.
2. For grading purposes, do NOT just submit the answers, instead copy each question, and put your answer under it. Unreadable and unclear answers will be graded with 0 points.
3. Submit your recitation on Canvas as a single PDF file.
4. For each recitation, you have 2 attempts to submit, but we will ONLY grade your last submission! It's your own responsibility to make sure that you submit the correct file! We will not accept any submissions through email.
5. Equipment defects and technological difficulties cannot become excuses for late submission. No late submissions will be accepted!

### Question

1. [7 pts] For the following DAG, assume **M** is the source vertex and the adjacency list is in alphabetical order. Show each vertices discover & finish time by a DFS on the graph.



2. [3 pts] Show the ordering of vertices produced by TOPOLOGICAL-SORT when it is run on above DAG. (see Fig. 22.7 on pp.613 as one example)