

DFS Application: Topological Sort

- There are many problems involving a set of tasks in which some tasks must be done before others.
- For example, consider taking a course only after taking its prerequisites.

Input A directed acyclic graph $G = (V, E)$

Output A linear ordering of the vertices such that for every edge $(u, v) \in E$, u comes before v .

(T/F) A DAG must contain a vertex whose in-degree is 0.