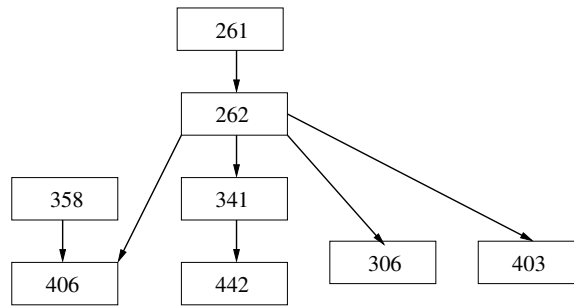


Topological Sorting on DAGs.



1. The figure above should be near and dear to your hearts! Do you see why it had better be an *acyclic* graph?

Yes, if courses like 406 were prerequisites for a class like 261, then nobody would be able to get their degree.

2. (Quickly) perform a DFS on the DAG in the figure, labeling each vertex with its finish time stamp.

Vertex	d	f
261	1	14
262	2	13
306	3	4
341	5	8
358	15	16
403	9	10
406	11	12
442	6	7

3. Now, list the vertices in topological order based on the finish times above.

$358 \rightarrow 261 \rightarrow 262 \rightarrow 406 \rightarrow 403 \rightarrow 341 \rightarrow 442 \rightarrow 306$