#### Algorithms & Models of Computation

CS/ECE 374, Fall 2020

### 16.2.2.1

Explicit defintion of what topological ordering

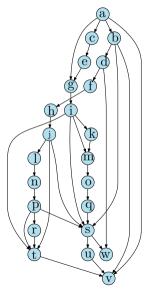
### An explicit defintion of what topological ordering of a graph is

For a graph G = (V, E) a **topological ordering** of a graph is a numbering  $\pi : V \to \{1, 2, ..., n\}$ , such that

$$\forall (u \rightarrow v) \in E(G) \implies \pi(u) < \pi(v).$$

(That is,  $\pi$  is one-to-one, and n = |V|)

# Example...



## THE END

...

(for now)