CSCC46 Tutorial 1

Class	CSCC46
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• Туре	Tutorial

Suppose we wanted to represent facebook as a graph, then our nodes are simply the people, and edges are whether people are friends. During this translation, we end up losing things like quality of friendship, length of friendship... overall we lose detail.

Bridge Edges

Suppose we have a connected graph, a bridge edge is an edge where upon deleting, the graph becomes disconnected.

OUT and IN

OUT(X): all nodes that can be reached if we start from node X, note the node itself is always included.

IN(X): all nodes that can reach node X, note that the node itself is always included here too.

Lastly, a strongly connected set that includes \mathbf{p} is simply $IN(D) \cap OUT(D)$.

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