

Tutorial 9: Acyclic join queries

- (1) Give examples of databases and acyclic CQs, and perform Yannakakis' algorithm on them.
- (2) Describe a modification of Yannakakis' algorithm for non-Boolean queries, and determine its complexity.
- (3) In determining whether a hypergraph is acyclic, we usually assume that the hypergraph is reduced. How should you modify Yannakakis' algorithm, if the hypergraph of the input CQ is *not* reduced?