COS 480/580 Fall 2012 Class Exercise 97 questions; 2 pgs. 2012-10-04

This exercise explores the AQuery paper. ${ }^{1}$

1. List the members of your group below. Underline your name.
2. Provide illustrative examples of arrables that are order equivalent and those that are not. Explain your examples briefly.
3. Provide an illustrative examples of a 5 -array arrable that is ordered by a 3 -element subset of its arrays. Determine all other arrays by which your example is also ordered. Explain your examples briefly.

[^0]4. Prove or disprove (see Definition 4): If $r \equiv_{\{ \}} s$ then $P(r)=s$ for some permutation $P$.
5. Provide an implementation of the prev function over an array (Section 2.2).
6. Provide examples illustrating the action of the projection and selection operators (Definitions 6 and 7).
7. Provide declarative specifications of the projection and selection operators.


[^0]:    ${ }^{1}$ Alberto Lerner and Dennis Shasha, "AQuery: Query Language for Ordered Data, Optimization Techniques, and Experiments," in Proceedings of the 29th International Conference on Very Large Data Bases (VLDB) (Berlin, Germany, 2003).

