Assignment 6

due: 10:10 am October 6, 2017

Turn in your answers at the beginning of class.

For each set of functional dependencies:

- create a 3NFLJDP decomposition using the algorithm from the text
- create a BCNFLJ decomposition using the algorithm from the text
- prove or disprove that your BCNFLJ decomposition is dependency preserving

You must show your work!

1. $F = \{ E \rightarrow BC, A \rightarrow D, B \rightarrow E \}$
2. $F = \{ CD \rightarrow ABE, E \rightarrow C \}$
3. $F = \{ E \rightarrow AB, A \rightarrow E, B \rightarrow C, C \rightarrow D \}$
4. $F = \{ E \rightarrow ABCE \}$