Homework 4

Due 4/9/2018

- 1. If you have data that should not be lost on disk failure, and the data are write intensive, how would you store the data? (10 points)
- 2. When is it preferable to use a dense index rather than a sparse index? (10 points)
- Construct a B +-tree for the following set of key values: (1, 3, 5, 7, 12, 17, 19, 24, 29, 31) Assume that the tree is initially empty and values are added in ascending order. Construct B +-trees for the cases where the number of pointers that will fit in one node is four. (10 points)
- 4. In 5 sentences or less describe the research option you chose and what type of research you plan conduct for the research phase of the project. Be specific. (20 points)