Lab: On-disk search

- 1. Without referring to class notes, define "sequential file organization" in your own words. After you have tried, refer to the class notes, and fix your definition if needed.
- 2. Do the same as 1, but for "search key".
- 3. Is a search key a superkey?
- 4. What is the average cost for linear search on equality on a primary key field? Assume 100,000 records, 10 records/block, 5 ms access time, 100 MB/s transfer rate, and 4 KB block size. Assume sequential access.
- 5. What takes longer: reading 10,000 blocks in a sequential access pattern, or 100 blocks in a random access pattern (no two blocks are adjacent)? Assume 4K bytes/block, 5 ms access time, and 120 MB/s transfer rate.