

DM808 I/O-Efficient Algorithms and Data Structures

Spring 2008

Exam Questions

1. External sorting and searching, upper and lower bounds.
2. External interval trees.
3. External 2D range searching.
4. External priority queue.
5. External graph algorithms: list ranking and Euler tour.
6. External graph algorithms: MST.
7. External graph algorithms: BFS.
8. Cache-oblivious searching.

The exam takes place June 6 in U49C, with preparation in U49D. The first person draws a question at 10:00 and is examined at 10:30. The order of students can be found on a sheet posted on the Imada billboard.

The examination period (including grading, etc.) is 30 minutes. The exam is with preparation (additional 30 minutes). You should plan to make a 15 minute presentation using the blackboard (you cannot bring transparencies). We may ask brief questions during your presentation. Afterwards, we may ask questions related to the topic, and to the rest of the curriculum.