Notes on the Final

• Value: 25% of your grade

• Format:

- in-person, closed book
- you will be allowed to use one A4 page of notes (front and back). If you type it, but please avoid too small fonts.
- you will be provided with questions and papers to write your solutions.

• When:

- 10:15am (Monday, March 18)
- 1:30 hour for the exam

• Helpful Resources:

- Our slides and your own lecture notes
- Questions in our quizzes and assignments are good examples

Possible topics in Final

- Binary search tree: definition, complexity of operations (worst case/average time), tree traversal
- B-tree: definition and insertion
- Red-Black tree: definition, insertion, and deletion
- Designing efficient algorithms for a problem using the data structures we discussed (e.g., trees, heaps).

Not covered in Final

- Formal proofs for heights of trees
- Input permutations to generate a BST shape
- Formal proofs of amortized analysis
- AVL trees, splay trees
- Hash tables
- Loop invariants