

1. (1 pt.)

- This *quick check* is **closed book, notes, etc.**
- You may use a 3 in. × 5 in. **reference card**, *hand-written by you*.
- Use the **classroom and textbook conventions** and terminology.

Read the above carefully; then write your name below:

2. (3 pts.) What are the conventional names of the three kinds of rotations used by splay trees? Which of those is unique to splay trees?

3. (2 pts.) How many trees are maintained in the top-down pass used by top-down splay trees?

4. (2 pts.) In the context of the analysis of bottom-up splaying, how is the *rank* of a node defined?

5. (2 pts.) State one advantage and one disadvantage of splay trees as compared with red-black trees.