

1. (1 pt.)

- This *quick check* is **closed book, notes, etc.**
- Use the **classroom and textbook conventions** and terminology.

Read the above carefully; then write your name below:

2. (6 pts.) In a B-tree (textbook's variant) with parameters M and L : [fill in the blanks as precisely as possible]

- (a) All non-leaf nodes, except the root, have between _____ and _____ children.
- (b) All leaf nodes have between _____ and _____ data items.
- (c) Values for M and L are selected such that a node fits in _____ .

3. (3 pts.) What does the insertion algorithm do if splitting a node results in its parent having more than the maximum allowed number of children?