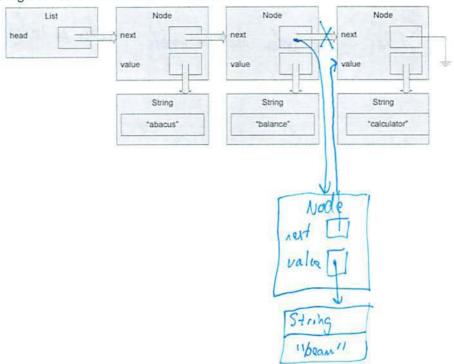
Name _ Answers

CS-2852 - Dr. Durant - Quiz 3 Spring 2014, Week 3

1. (3 points) Illustrate on the following diagram how the list will be structured after adding a "beam" string between "balance" and "calculator."



2. (4 points) List the steps your code would take, in the correct order, to add a node after a given node in a list such as the one above. Assume that you've already found the node to add after ("balance" in the example above) and that it is not at the end of the list.

(1) create new mode with new content and next = mode to Add After. Next

(2) node To Add After next = the New Node;

Note: The greation avoids the most to deal wo adding a hood would by specifying you are given mode to add after. Head would be hardled by checking for mull.

Note: Since the previous note is given, it is infficient to be -) walk the list in your answer.

- 3. (3 points) When implementing add(int, E), that is, adding a node at a given position (which increases the list size by 1 if successful), list at least 3 additional, distinct cases that you must ensure work correctly:
 - User gives negative position → throw an IndexOutOfBoundsException (you don't need to specify the outcome for your cases)