1. Suppose that the set of loans made by a library is to be represented in a data structure. Each book in the library may be checked out only by a single library patron at a time. However, a single patron may be able to check out multiple books. To be able to efficiently determine which patron has a given book, the library data structure is best represented by a dictionary where:

A. None of the other answers are correct.
B. the patrons are the keys and the books are the values.
C. [Correct Answer] [Your Answer] the books are the keys and the patrons are the values.
D. unique indices starting from 0 are the keys and the pair (books,patrons) is the value.
E. a concatenated string `books+patrons` is the key and a boolean is the value.

2. Which of the following can be used to implement the Dictionary data structure? (do not worry about the efficiency)

A. [Correct Answer] All of these are dictionaries
B. AVL Trees
C. [Your Answer] Binary Search Tree
D. Singly-Linked list
E. Array

3. Assume that you have a templatized `Latte` class, and another `coffee` class. Which of the following correctly declares a variable called `beverages` which is a dynamic array of type `Latte` whose parameterized type is a `coffee` object?

A. [Correct Answer] [Your Answer] `Latte<coffee> * beverages;`
B. `Latte * beverages = new coffee[size];`
C. None of the other options is correct.
D. More than one of the other options are correct.
E. `Latte<coffee *> * beverages;`

4. Which of the following collection of function signatures corresponds to the Dictionary ADT?

A. [Your Answer] None of the other items describe a dictionary.
B. `void insert(key, value); void remove(key, value); void find(key);`
C. [Correct Answer] `void insert(key, value); void remove(key); value find(key);`
D. Exactly 2 of the other items can be considered to be Dictionaries.
E. `void insert(key, value); key remove(value); void find(value);`