**submitItem:**

Pre-conditions:

1. Lowest bidding price falls under range of 0-99
2. Seller item count should not be more than 3 with lowest bidding price of greater than 75 or check if seller falls under disqualified
3. Current active items count should not be more than server capacity
4. Current sellers active number of items on sale should not be more than allowed maximum number of seller items count.

Post-conditions:

1. Returns listing identification if successful
2. Returns -1 on failure
3. Increment the count of seller active items on server
4. Add item into the list of current active items

Pseudo-code:

**submitBidder**

Pre-conditions:

Post-conditions:

Invariants:

Pseudo-code:

**getItems**

Pre-conditions: No conditions

Post-conditions: Returns current list of active listed items on server

Invariants:

Pseudo-code:

Return new ArrayList<Item>(itemsUpForBidding);

**itemPrice**

Pre-conditions:

1. Valid listing id used as input

Post-conditions:

1. Returns -1 if listing is not available
2. Returns

Invariants:

Pseudo-code: