Ordering items

→the program allow users the ability to order items from a

supermarket online. The Item consists of three attributes and Read the items from a file.

- Item Name

- It's category

- Item price

→For the Item creation, there an item class where objects are part of

the node which will form the non-linear trees. In other terms, the program

is made up of three tree data structures which are 1 binary search tree,

2 heaps and 3 avl and they are all node-based.

→The program implements the three tree data structures as following:

1) A Menu that allow user to choose which non linear structure:

    i. Binary Search Trees (BST)

    ii. Heaps

    iii. AVL Trees

2) Each tree have its own mini menu:

The mini-menu has all the operation that are applied the tree

structures:

    I. Add item data,

    II. Remove item data,

    III. Display the item data normally

    IV. Display all the items sorted by their name

    ascending

    V. Display all the items sorted by their name

descending,

VI. Display all the items sorted by their prices ascending

VII. Display all the items sorted by their prices descending.