

1 Lab Assignment 5

This lab will require you to count the frequent itemsets of size 3.

You will want to build on your code from Homework 1 as well as other code that you have been writing.

Read baskets into a list structure. The interface refers to other methods you have been including into your list structure class over the semester. These must be included EVEN if all you include is a stub to satisfy the compiler.

You will almost certainly need to add a `getValue(int which)` method to your `Basket` class in order to extract the individual item numbers by subscript position in the basket.

You will almost certainly also need to add a `minValue` and a `maxValue` method to your `Basket` class in order to extract the min and max item numbers from the basket.

The important method in this exercise is the `itemsets3` method to count the number of occurrences of itemsets of size 3.

As you read the values into the baskets, you should be computing the overall min and max value (the max is more important, but do the min as well).

In the `itemsets3` method, you should set up a 3-dimensional integer array for the counts, with subscripts up to AND INCLUDING the max value overall that you computed. Then zero the array.

Now, read through the list of baskets in the outer loop. In the inner three loops, use three independent subscripts to generate all the subsets of size 3. Extract the values from the basket, and bump the frequency counter for that triple-subscript.

On the way out of `itemsets3`, run a triple loop to produce a string that is the output string of the itemsets that happened to occur and the frequencies that occurred.