

Olive's Custom Food Program

Your goal is to design and implement a C++ program for our client, Olive S. Cargot, to track nutrition labels and recipes for her personal use.

You'll have two delivery dates, with a subset due in a few weeks and the completed version near the end of the semester. You'll find submission details below.

Program specifications:

Olive wants a program that will allow her to work with two different items: nutrition labels and recipes. She has listed her specifications but agrees that you might add to this list as you develop the software and/or she might add to it as she thinks of things. She wrote the following specs.

Ms. Olive S. Cargot's specs:

I want a program that upon start up asks me if I want to work with labels, recipes or to quit. Once I select one, I keep working with it until I choose to stop -I should see the choice menu again until I finally choose to quit the program.

Nutrition Labels

- I want to be able to manage up to 50 nutrition labels – I should be able to add, delete and edit my labels.
- I should be able to add new ones from:
 - A file
 - The keyboard
- I should be able to edit an existing label's contents
- I should be able to remove a label from my set of labels
- I should be able to list out the product names and pick one to view
 - I'd like the option to print it to the screen and/or to a file also
- I want the labels to be kept in one file and read in when the program starts up and written out when I want to quit and save my work with it. It is possible to I will want to quit without saving (in the case that I mess up an edit or delete something I didn't mean to delete).
- The information I want for my nutrition labels:
 - I worked with your instructor and we laid out some thoughts with a working group of students – a picture of our work is posted for your review – I hope you can determine the info from it ☺

Recipes

- I want to be able to manage up to 50 recipes – I should be able to add, delete and edit my recipes
- I should be able to add new ones from:
 - A file

- The keyboard
- I should be able to edit an existing recipe's contents
- I should be able to remove a recipe from my set of recipes
- I should be able to enter up to 3 ingredients and get a list of all the recipe names that include those ingredients
- I should be able to list out the recipe names and pick one to view
 - I'd like the option to print it to the screen and/or to a file also
 - I should be able to print a shopping list of ingredients and their quantities
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- I want the recipes to all be kept in one file and read in when the program starts up and written out when I want to quit and save my work with it. It is possible to I will want to quit without saving (in the case that I mess up an edit or delete something I didn't mean to delete).
- The information I want for my recipes:
 - I haven't thought this through completely – I'm hoping you'll come up with a great design that will handle a large assortment of recipes – one that allows for good directions, substantial ingredient list with quantities, etc... I have faith in your ability! I'll supply you with a couple recipes (some of my more involved ones) for you to test your work with.
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Things You Need To Know (programmer specific requirements)

***IMPORTANT that you refer to the supplemental file:
ProjectSubmissionRequirements***