

COP 3503 Summer 2014  
Programmer's Guide and Report for Project\_3  
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Wed June 23 EDT 2014

#### Purpose of Program

Project\_3 Accepts Recipe and Inventory xml files where you can add the Recipe files to a menu where you can print different titles, print each recipe by inputting the title. You can change the equipment and ingredients in your inventory. According to your inventory it will tell you which ones you are lacking also.

#### Options

It will take an integer argument and depending what you type it will take arguments accordingly.

#### Organization of Code

There are 6 different classes (Ingredient, Equipment, Preparation, Recipe, Inventory, and RecipeSet) which contains several different methods where it's used in to perform function around the classes, the implementation is done on the source code.cpp and a main that takes functions from the source code.cpp and implement them in each option.

#### Functions, Methods, Procedures

Inside the set it contain different methods that will later be implemented inside each option.

#### Efficiency

It is not as efficient as I wanted to be, I could have done it completely in vectors rather than arrays.

#### Known Bugs

If given a wrong file it will show a notice and later crash.

The output functions does not work properly.

When printing the preparations it will give an extra line.

#### Testing

```
stefano92@Stefano ~/cop3503/project_3
$ ./project_3.exe
>1
Input recipe file: arroz_con_pollo.xml
Input recipe file is arroz_con_pollo.xml
>1
Input recipe file: tostones.xml
Input recipe file is tostones.xml
>1
Input recipe file: foofoo.xml
Input recipe file is foofoo.xml
>2
Input inventory file: supplies1.xml
Input inventory file is supplies1.xml
>2
Input inventory file: supplies2.xml
Input inventory file is supplies2.xml
>4
Add a title: Tostones
>4
Add a title: Arroz con Pollo
>8
Current menu:
Tostones
Arroz con Pollo
>4
Add a title: Foofoo
>8
Current menu:
Tostones
Arroz con Pollo
```

Foofoo

>9

Input title:

Tostones

Current recipe:

Tostones

Ingredients:

2 green plantains

oil for frying

salt

Equipment:

tostonera

Preparation:

Cut peel off plantains and cut into 1/2 to 1 inch chunks.

Bring oil (at least 2 inches deep) to 280-300 degrees F.

Fry plantain chunks for about 2 minutes in batches of 6-7.

Drain fried plantain chunks and smash with a

tostonera

to 1/4 inch thickness.

Fry flattened plantain chunks for about 2 more minutes in batches of 3-4.

Drain and place tostones on paper towels.

Lightly salt tostones to taste.

>16

Ingredient list:

2 green plantains

oil for frying

salt

2 chicken lbs

mojo griollo cup

2 green pepper

2 onion

12 garlic cloves

10 olive oil Tbsp

6 bay leaf

salt

5 Saison completa Tbsp

bijol tsp

2 ground cumin Tbsp

manzanilla olives cup

3 rice cups

5 water cups

2 ripe plantains

water

chicharones cup

>19

Equipment list:

tostonera

large frying pan

large covered pot

2 qt. pot

potato masher

>14

Ingredient inventory:

13 unbleached wheat blend flour c.

baking powder can

7 unrefined sugar lb.

coarse kosher salt box

10 free-range egg

hormone-free milk gal.

natural peanut butter jar

ketchup bottle

orange juice gal.

cheerios box

24 organic vegetable oil oz.

24 Ground Cumin Tsp

12 Bijol packet

5 rice lb.

3 olive oil qt.

18 egg

>15

Equipment inventory:

mixing bowl  
mixer  
blender  
small frying pan  
large frying pan  
griddle  
2 qt. pot  
1 qt. pot  
10 qt. pot  
rice cooker  
>10  
Increase:  
Input foodItem:  
rice  
Input quantity:  
3  
Input unit (if no unit are not wanted to be added just input no):  
lb.  
>14  
Ingredient inventory:  
13 unbleached wheat blend flour c.  
baking powder can  
7 unrefined sugar lb.  
coarse kosher salt box  
10 free-range egg  
hormone-free milk gal.  
natural peanut butter jar  
ketchup bottle  
orange juice gal.  
cheerios box  
24 organic vegetable oil oz.  
24 Ground Cumin Tsp  
12 Bijol packet  
8 rice lb.  
3 olive oil qt.  
18 egg  
>11  
Reduce:  
Input foodItem:  
rice  
Input quantity:  
4  
Input unit:  
lbs  
rice is not in the set  
>11  
Reduce:  
Input foodItem:  
egg  
Input quantity:  
19  
Input unit:  
no  
>14  
Ingredient inventory:  
13 unbleached wheat blend flour c.  
baking powder can  
7 unrefined sugar lb.  
coarse kosher salt box  
10 free-range egg  
hormone-free milk gal.  
natural peanut butter jar  
ketchup bottle  
orange juice gal.  
cheerios box  
24 organic vegetable oil oz.  
24 Ground Cumin Tsp  
12 Bijol packet  
8 rice lb.  
3 olive oil qt.  
>12  
Insert: chainsaw

```
>15
Equipment inventory:
  mixing bowl
  mixer
  blender
  small frying pan
  large frying pan
  griddle
  2 qt. pot
  1 qt. pot
  10 qt. pot
  rice cooker
  chainsaw
>13
Delete: blender
>15
Equipment inventory:
  mixing bowl
  mixer
  small frying pan
  large frying pan
  griddle
  2 qt. pot
  1 qt. pot
  10 qt. pot
  rice cooker
  chainsaw
>3
Subtract inventory file: supplies2.xml
Subtract inventory file is supplies2.xml
egg is not in the set
>15
Equipment inventory:
  mixing bowl
  mixer
  small frying pan
  large frying pan
  griddle
  2 qt. pot
  1 qt. pot
  10 qt. pot
  rice cooker
  chainsaw
>14
Ingredient inventory:
  8 unbleached wheat blend flour c.
  baking powder can
  5 unrefined sugar lb.
  coarse kosher salt box
  10 free-range egg
  hormone-free milk gal.
  natural peanut butter jar
  ketchup bottle
  orange juice gal.
  cheerios box
  24 organic vegetable oil oz.
  3 rice lb.
$ ./project_3.exe
>1
Input recipe file: tostones.xml
Input recipe file is tostones.xml
>1
Input recipe file: foofoo.xml
Input recipe file is foofoo.xml
>1
Input recipe file: arroz_con_pollo.xml
Input recipe file is arroz_con_pollo.xml
>4
Add a title: Tostones
>4
Add a title: Arroz con Pollo
>4
```

```
Add a title: Foofoo
>8
Current menu:
Tostones
Arroz con Pollo
Foofoo
>5
Remove recipe title: Arroz con Pollo
>8
Current menu:
Tostones
Foofoo
>6
Reset completed
>8
Current menu:
>4
Add a title: Tostones
>8
Current menu:
Tostones
>0
You are now exiting
```