

6015 hw17

### 1.refactory plan:

My bank and supermarket senario are exactly the same at this moment, so I will just take as I made some mistakes at the implementation. I will just pretend the simulation() methods in each senario are different.

#### (a). duplicated code:

Except the “assumed different” simulation() method in bank and supermarket classes, there are methods do exactly the same job with the same name in the 2 classes. So maybe remove the duplicated methods and put the common methods in a utl class. Such methods are like static bool sort\_using\_smaller\_than(), printRes()...

#### (b). loose cohesion:

I have customer structure in both classes. But customer struct might not be part of the bank or supermarket and need to be removed from both classes, and set as a separate hpp file...?

#### (c) . public member filelds:

Maybe change the data member variables to private.

#### (d). magic numbers:

change those magic numbers (such as 12\*60\*60 which is really just 12 hr convert into seconds) into variables with proper names.