//

// Pseudocode

// pp25-26, #16, #18, #22, #24

//

// Created by Masatoshi Nishiguchi on 9/7/15

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**#16 convert\_change\_in\_pennies.cpp**

output = 0;

output += numQuarters \* 25;

output += numDimes \* 10;

output += numNickels \* 5;

output += numPennies;

return output;

**#18 calculate\_selling\_price.cpp**

regularPrice = costPrice \* (1.0 + MARK\_UP)

if (isMarkedDown)

sellingPrice = regularPrice \* (1.0 - DISCOUNT)

else

sellingPrice = regularPrice

**#22 atm\_withdrawal.cpp**

1. Display a welcome message.

2. Check the current amount in the account.

- Say good-bye if the amount is zero or less.

3. Ask the customer how much they want to withdraw.

4. If the current amount is NOT enough, ask the customer if they want to proceed by paying a service fee of $25.00.

5. If the withdrawal amount is greater than $300.00, a service charge of 4% of the amount over $300 will be charged. Inform the customer and ask if they stil want to proceed.

6. Process the withdrawal (customerAccount - withdrawal - serviceCharge)

7. Print a receipt.

8. Display a thank you message.

**#24 calculate\_cost\_of\_each\_class.cpp**

1. Calculate average cost per unit

TUITION\_PER\_SEMESTER / AVERAGE\_TOTAL\_UNITS

2. Calculate total cost of the course for a semester

costPerUnit \* courseUnits

3. Calculate hourly cost of the course

totalHoursInSemester = hoursPerClass \* daysPerWeek \* weeksPerSemester

hourlyCost = courseCost / totalHoursInSemester

4. Calculate cost of each class for this course

hourlyCost \* hoursPerClass