



MILESTONE 2

PRG181



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IPO TABLE:

For reference

Input	Processes	Output
Name of collectable Owner's detail Category Sub-category Expected price	Sorting the data Managing stock Calculations of rent Calculations of commission	Item & owner's details Rent Commission Inventory report. Transaction report

Flowchart



Pseudocode

BEGIN

//We begin by creating the categories and sub-categories of the collectables

Create categories: Superhero Collectables, Anime/Manga Collectables, Gaming Collectables,
Sold.

Under category Superhero Collectables create sub-categories:

Comic books and graphic novels, Limited edition artwork, Action figures and statues, Prop replicas and costumes

Under category Anime/Manga Collectables create sub-categories:

Wall scrolls and posters, Manga volumes, Anime DVDs and Blu-rays, Figurines and model kits

Under category Gaming Collectables create sub-categories

Art books and strategy guides, Special edition video games, Collectible cards and board games,
Gaming consoles & peripherals

//We set the constant values of the rent of all the sub-categories

Set Rent for comic books and graphic novels = R10

Set Rent for limited edition artwork =R20

Set Rent for action figures and statues = R45

Set Rent for Prop replicas and costumes = R75

Set Rent for wall scrolls and posters = R5

Set Rent for manga volumes = R15

Set Rent for anime DVD's and Blue-rays = R25

Set Rent for figurines and model kits = R45

Set Rent for art books and strategy = R15

Set Rent for special edition video games = R30

Set Rent for collectible cards and board games = R45

Set Rent for gaming consoles and peripherals = R65

//This is the information entered when a new collectable is placed in the store

Input Name of collectable

Input Detail owner

Input Category

Input Sub-category

Input Expected price

//The system then uses the following code to sort data into the correct category and sub-category. First the system finds the correct category and then it searches for the correct sub-category, when the system finds the correct category and sub-category it stores the input data.

If category == Superhero Collectables THEN

For sub-categories in Superhero Collectables

If sub-category == Comic books and graphic novels THEN

Store Name of collectable, Details of owner and Expected price as item details.

Generate item code.

Set Item rent to 0.

Set Days in store to 0.

ELSE IF sub-category == Limited edition artwork THEN

Store Name of collectable, Details of owner and Expected price as item details.

Generate item code.

Set Item rent to 0.

Set Days in store to 0. [OBJ]

ELSE IF sub-category == Action figures and statues THEN

Store Name of collectable, Details of owner and Expected prices item details.

Generate item code.

Set Item rent to 0.

Set Days in store to 0. [OBJ]

ELSE IF sub-category == Prop replicas and costumes THEN

Store Name of collectable, Details of owner and Expected price as item details.

Generate item code.

Set Item rent to 0.

```

        Set Days in store to 0. [OBJ]
    END IF
END FOR
ELSE If category == Anime/Manga Collectables THEN
    For sub-categories in Anime/Manga Collectables
        If sub-category == Wall scrolls and posters THEN
            Store Name of collectable, Details of owner and Expected price as item
            details.

            Generate item code.

            Set Item rent to 0.

            Set Days in store to 0.

        ELSE IF sub-category == Manga volumes THEN
            Store Name of collectable, Details of owner and Expected price as item
            details.

            Generate item code.

            Set Item rent to 0.

            Set Days in store to 0. [OBJ]

        ELSE IF sub-category == Anime DVD's and Blue-rays THEN
            Store Name of collectable, Details of owner and Expected price as item
            details.

            Generate item code.

            Set Item rent to 0.

            Set Days in store to 0. [OBJ]

        ELSE IF sub-category == Figurines and modal kits THEN
            Store Name of collectable, Details of owner and Expected price as item
            details.

            Generate item code.

            Set Item rent to 0.

            Set Days in store to 0. [OBJ]

        END IF
    END FOR
END FOR

```

ELSE If category == Gaming Collections THEN

For sub-categories in Gaming Collections

If sub-category == Art books and strategy guides THEN

Store Name of collectable, Details of owner and Expected price as item details.

Generate item code.

Set Item rent to 0.

Set Days in store to 0.

ELSE IF sub-category == Special edition video games THEN

Store Name of collectable, Details of owner and Expected price as item details.

Generate item code.

Set Item rent to 0.

Set Days in store to 0. [OBJ]

ELSE IF sub-category == Collectible cards and board games THEN

Store Name of collectable, Details of owner and Expected price as item details.

Generate item code.

Set Item rent to 0.

Set Days in store to 0. [OBJ]

ELSE IF sub-category == Gaming consoles & peripherals THEN

Store Name of collectable, Details of owner and Expected price as item details.

Generate item code.

Set Item rent to 0.

Set Days in store to 0.

END IF

END FOR

//If stock sells

Input item code

IF item code == item code in database THEN

 Display item detail

 Input if item is sold

 IF item == sold THEN

 Mark item as sold

 Move item details to Sold category

 END IF

ELSE

 Display "Item code does not match any item in database."

END IF

// We need to calculate the commission of each category

input item price

commission=0.25

 commission = item price*0.25

superhero collectable price=input price

manga collectable price=input price

gaming collectable price=input price

 commission superhero = superhero collectable price * 0.25 Display "the commission for the superhero collectable is:"

 commission manga= manga collectable price * 0.25 Display

 "the commission for the manga collectable is:"

 commission gaming= gaming collectable price * 0.25 Display

 "the commission for the gaming collectable is:"

//This checks if the item is in the store at the end of each day and adds a day's rent if the item is still in the store.

FOR days in store

IF item != sold THEN

 Days in store += 1

END IF

//This code checks if the collectable is in the store for 6 months (182 days) and if so, it calculates the rent.

IF Days in store == 182 days THEN

 If category == Superhero Collectables THEN

 For sub-categories in Superhero Collectables

 If sub-category == Comic books and graphic novels, THEN

 Item rent = 182 * Rent for comic books and graphic novels

 Display item rent

 ELSE IF sub-category == Limited edition artwork THEN

 Item rent = 182 * Rent for limited edition artwork

 Display item rent

 ELSE IF sub-category == Action figures and statues THEN

```

        Item rent = 182 * Rent for action figures and statues
        Display item rent
    ELSE IF sub-category == Prop replicas and costumes THEN
        Item rent = 182 * Rent for prop replicas and costumes
        Display item rent
    END IF
END FOR

Else If category == Anime/Manga Collectables THEN
For sub-categories in Anime/Manga Collectables
    If sub-category == Wall scrolls and posters THEN
        Item rent = 182 * Rent for wall scrolls and posters
        Display item rent
    ELSE IF sub-category == Manga volumes THEN
        Item rent = 182 * Rent for manga volumes
        Display item rent
    ELSE IF sub-category == Anime DVD's and Blue-rays THEN
        Item rent = 182 * Rent for anime DVD's and Blue-rays
        Display item rent
    ELSE IF sub-category == Figurines and modal kits THEN
        Item rent = 182 * Rent for figurines and modal kits
        Display item rent
    END IF
END FOR

ELSE If category == in Gaming Collections THEN
For sub-categories in Gaming Collections
    If sub-category == Art books and strategy guides THEN
        Item rent = 182 * Rent for art books and strategy guides
        Display item rent
    
```

```
ELSE IF sub-category == Special edition video games THEN Item rent = 182 *  
Rent for special edition video games
```

```
    Display item rent
```

```
ELSE IF sub-category == Collectible cards and board games THEN
```

```
    Item rent = 182 * Rent for collectible cards and board games
```

```
    Display item rent
```

```
ELSE IF sub-category == Gaming consoles & peripherals THEN
```

```
    Item rent = 182 * Rent for gaming consoles & peripherals
```

```
    Display item rent
```

```
END IF
```

```
END FOR
```

```
END IF
```

//This code calculates the rent if the item is sold before the end of the 6 months lease period.

```
IF item == sold THEN
```

```
    If category == Superhero Collectables THEN
```

```
        For sub-categories in Superhero Collectables
```

```
            If sub-category == Comic books and graphic novels THEN
```

```
                Item rent = Days in store * Rent for comic books and graphic novels
```

```
                Display item rent
```

```
            ELSE IF sub-category == Limited edition artwork THEN
```

```
                Item rent = Days in store * Rent for limited edition artwork
```

```
                Display item rent
```

```
            ELSE IF sub-category == Action figures and statues THEN
```

```
                Item rent = Days in store * Rent for action figures and statues
```

```
                Display item rent
```

```
            ELSE IF sub-category == Prop replicas and costumes THEN
```

```

        Item rent = Days in store * Rent for prop replicas and costumes
        Display item rent
    END IF
END FOR

Else If category == Anime/Manga Collectables THEN
For sub-categories in Anime/Manga Collectables
    If sub-category == Wall scrolls and posters THEN
        Item rent = Days in store * Rent for wall scrolls and posters
        Display item rent
    ELSE IF sub-category == Manga volumes THEN
        Item rent = Days in store * Rent for manga volumes
        Display item rent
    ELSE IF sub-category == Anime DVD's and Blue-rays THEN
        Item rent = Days in store * Rent for anime DVD's and Blue-rays
        Display item rent
    ELSE IF sub-category == Figurines and modal kits THEN
        Item rent = Days in store * Rent for figurines and modal kits
        Display item rent
    END IF
END FOR

ELSE If category == in Gaming Collections THEN
For sub-categories in in Gaming Collections
    If sub-category == Art books and strategy guides THEN
        Item rent = Days in store * Rent for art books and strategy guides
        Display item rent
    ELSE IF sub-category == Special edition video games THEN
        Item rent = Days in store * Rent for special edition video games
        Display item rent
    
```

```
ELSE IF sub-category == Collectible cards and board games THEN
    Item rent = Days in store * Rent for collectible cards and board games
    Display item rent
ELSE IF sub-category == Gaming consoles & peripherals THEN
    Item rent = Days in store * Rent for gaming consoles & peripherals
    Display item rent
END IF
END FOR
END IF
END
```