

Pseudocode For Problem

PROGRAM DailyTrackOfBaskets

fullSize = 30

halfSize = 20

pullAlong = 25

BEGIN Main Procedure

CALL ShowMenu

READ optionChoosen

CASE optionChoosen **OF**

 1 : **CALL** IssuedBasket

 2 : **CALL** ReturnedBasket

 3 : **CALL** ShowBasketAvailavility

 4 : **CALL** ShowBasketPopularity

 5 : **CALL** ShowBasketLost

 6 : **CALL** Exit

OTHER : **PRINT** "Error!" **CALL** Main Procedure

ENDCASE

END

Functions defined

Show menu function

BEGIN ShowMenu

PRINT "Press 1 for Issued Basket"

PRINT "Press 2 for Returned Basket"

PRINT "Press 3 for Check Availability of Basket"

PRINT "Press 4 for Check Popularity of Basket"

PRINT "Press 5 for Check Lost Basket"

PRINT "Press 6 for Exit"

END

Issued Basket Functiuon

BEGIN IssuedBasket

PRINT "Select Basket Type"

PRINT "Press 1 for Full-size Basket"

PRINT "Press 2 for Half-size Basket"

PRINT "Press 3 for Pull-along Basket"

PRINT "Press 4 for Main Menu"

READ optionChoosen

CASE optionChoosen **OF**

IF optionChoosen == 1 **THEN**

PRINT "Enter Basket allocate in range (1001-1030)"

READ allocate_number **OF**

SET IssuedBasketArray = **ADD** allocate_numbe **TO** IssuedBasketArray

SET cash = **ADD** £5 **TO** cash

SET fullSize = **SUBTRACT** 1 **FROM** fullSize

CALL IssuedBasket

ELSE IF optionChoosen == 2 **THEN**

PRINT "Enter Basket allocate in range (2001-2020)"

READ allocate_number **OF**

SET IssuedBasketArray = **ADD** allocate_numbe **TO** IssuedBasketArray

SET cash = **ADD** £5 **TO** cash

SET halfSize = **SUBTRACT** 1 **FROM** halfSize

CALL IssuedBasket

ELSE IF optionChoosen == 3 **THEN**

PRINT "Enter Basket allocate in range (2001-2020)"

READ allocate_number **OF**

SET IssuedBasketArray = **ADD** allocate_numbe **TO** IssuedBasketArray

SET cash = **ADD** £5 **TO** cash

SET pullAlong = **SUBTRACT** 1 **FROM** pullAlong

CALL IssuedBasket

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ELSE IF optionChosen == 4 THEN

    CALL Main Procedure

ELSE IF optionChosen == other THEN

    PRINT "Invalid Input!!"

    CALL IssuedBasket

ENDIF

END

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Returned Basket Function

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BEGIN ReturnedBasket

    SET ReturnedBasketArray = ADD allocate_numbe TO ReturnedBasketArray

    SET IssuedBasketArray = SUBTRACT allocate_numbe FROM IssuedBasketArray

    SET cash = SUBTRACT £5 FROM cash

    PRINT "Ask customer to rate this basket (1-5)"

    READ rateStar

    IF rateStar >= 3 THEN

        SET MostPopularBasket = ADD allocate_numbe TO MostPopularBasket

    Else IF rateStar < 3 THEN

        SET LeastPopularBasket = ADD allocate_numbe TO LeastPopularBasket

    ENDIF

    PRINT "Enter 0 for Main Menu"

    READ number

    IF number == 0 THEN

        CALL MainMenu

    ENDIF

END

```

ShowBasketAvailability Function

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BEGIN ShowBasketAvailability

    FOR counter = IssuedBasketArray.length TO 1 STEP -1 DO

        IF counter >= 1001 AND counter <= 1030 THEN

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        SET FullSizeOnLoan = ADD 1 TO FullSizeOnLoan
    ELSE IF counter >= 2001 AND counter <= 2020 THEN
        SET HalfSizeOnLoan = ADD 1 TO HalfSizeOnLoan
    ELSE IF counter >= 2001 AND counter <= 2020 THEN
        SET PullAlongOnLoan = ADD 1 TO PullAlongOnLoan
    ENDIF
NEXT counter

ENDFOR

PRINT "Overall On Loan"

PRINT FullSizeOnLoan, HalfSizeOnLoan, PullAlongOnLoan


FOR counter = ReturnedBasketArray.length TO 1 STEP -1 DO
    IF counter >= 1001 AND counter <= 1030 THEN
        SET FullSizeNotLoan = ADD 1 TO FullSizeNotLoan
    ELSE IF counter >= 2001 AND counter <= 2020 THEN
        SET HalfSizeNotLoan = ADD 1 TO HalfSizeNotLoan
    ELSE IF counter >= 2001 AND counter <= 2020 THEN
        SET PullAlongNotLoan = ADD 1 TO PullAlongNotLoan
    ENDIF
NEXT counter

ENDFOR

PRINT "Overall On Not Loan"

PRINT FullSizeNotLoan, HalfSizeNotLoan, PullAlongNotLoan

PRINT "Enter 0 for Main Menu"

READ number

IF number == 0 THEN
    CALL MainMenu
END

Show Popular Basket Functuion

BEGIN ShowBasketPopularity

    PRINT "Most Popular Baskets"

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    FOR counter = MostPopularBasket.length TO 1 STEP -1 DO
        PRINT counter
    NEXT counter
ENDFOR

PRINT "Least Popular Baskets"

FOR counter = LeastPopularBasket.length TO 1 STEP -1 DO
    PRINT counter
NEXT counter

ENDFOR

PRINT "Enter 0 for Main Menu"

READ number

IF number == 0 THEN
    CALL MainMenu
END

```

Show Lost Basket Functuaion

```

BEGIN ShowBasketLost

    IF fullSize != 30 THEN
        PRINT "Full Size Basket Lost Today are:"
        SET fullBasketLost = SUBTRACT 30 FROM fullSize
        PRINT fullBasketLost
    ENDIF

    IF halfSize != 20 THEN
        PRINT "Half Size Basket Lost Today are:"
        SET halfBasketLost = SUBTRACT 20 FROM halfSize
        PRINT halfBasketLost
    ENDIF

    IF pullAlong != 25 THEN
        PRINT "Pull Along Basket Lost Today are:"
        SET pullAlongBasketLost = SUBTRACT 25 FROM pullAlong
        PRINT pullAlongBasketLost
    ENDIF
END

```

Main Menu Functuion

BEGIN MainMenu

CALL Main Procedure

END

Exit Functuion

BEGIN Exit

Exit()

END