

Pseudocode

```
DECLARE baguetteSize: ARRAY[1:2] OF INTEGER
DECLARE baguetteSizeName : ARRAY[1:2] OF STRING

DECLARE breadType: ARRAY[1:3] OF INTEGER
DECLARE breadTypeName: ARRAY[1:3] OF STRING

DECLARE fillings: ARRAY[1:6] OF INTEGER
DECLARE fillingsName: ARRAY[1:6] OF STRING

DECLARE salad : ARRAY[1:5] OF INTEGER
DECLARE saladName : ARRAY[1:5] OF STRING
DECLARE saladChoiceList : ARRAY[1:3] OF STRING

DECLARE sizeFlag : BOOLEAN
DECLARE breadFlag : BOOLEAN
DECLARE fillingFlag : BOOLEAN
DECLARE saladFlag : BOOLEAN
DECLARE changeOrder : BOOLEAN
DECLARE cancelOrder : BOOLEAN
DECLARE moreOrder : BOOLEAN

DECLARE orderNo : INTEGER

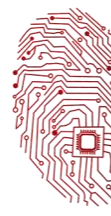
DECLARE sizeChoice : INTEGER
DECLARE breadChoice : INTEGER
DECLARE fillingChoice : INTEGER
DECLARE saladChoice : INTEGER
DECLARE size : INTEGER

DECLARE saladCount : INTEGER = 0

DECLARE addSalad : STRING
DECLARE more : STRING
DECLARE sizeDisplay : STRING
DECLARE bread : STRING
DECLARE filling : STRING
DECLARE confirmOrder : STRING
DECLARE changeOrderChoice : STRING
DECLARE cancelOrderChoice : STRING
DECLARE moreOrderChoice : STRING

DECLARE COUNT : INTEGER
```





Pseudocode

```
FOR Count = 1 TO 2
    baguetteSize[Count] = 0
NEXT

FOR Count = 1 TO 3
    breadType[Count] = 0
NEXT

FOR Count = 1 TO 6
    fillings[Count] = 0
NEXT

FOR Count = 1 to 5
    salad[Count] = 0
NEXT

baguetteSizeName[1] = "15cm"
baguetteSizeName[2] = "30cm"

breadTypeName[1] = "White"
breadTypeName[2] = "Brown"
breadTypeName[3] = "Seeded"

fillingsName[1] = "Beef"
fillingsName[2] = "Chicken"
fillingsName[3] = "Cheese"
fillingsName[4] = "Egg"
fillingsName[5] = "Tuna"
fillingsName[6] = "Turkey"

saladName[1] = "Lettuce"
saladName[2] = "Tomato"
saladName[3] = "Sweetcorn"
saladName[4] = "Cucumber"
saladName[5] = "Peppers"

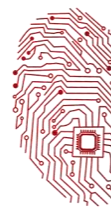
saladChoiceList[1] = ""
saladChoiceList[2] = ""
saladChoiceList[3] = ""

orderNo = 0

moreOrder = TRUE
changeOrder = TRUE

WHILE moreOrder = TRUE
    WHILE changeOrder = TRUE
        OUTPUT "Baguette sizes:"
        OUTPUT "1. 15cm"
        OUTPUT "2. 30cm"
```





Pseudocode

```
sizeFlag = False

WHILE sizeFlag = False
    OUTPUT "Enter your choice [1-2]: "
    INPUT sizeChoice

    IF sizeChoice < 1 OR sizeChoice > 2 THEN
        OUTPUT "Please enter a valid choice of size
            [1-2]."
    ELSE
        baguetteSize[sizeChoice] =
            baguetteSize[sizeChoice] + 1
        sizeFlag = TRUE
    END IF
END WHILE

OUTPUT "Bread types:"
OUTPUT "1. White"
OUTPUT "2. Brown"
OUTPUT "3. Seeded"

breadFlag = FALSE

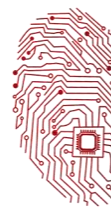
WHILE breadFlag = FALSE
    OUTPUT "Enter your choice [1-3]: "
    INPUT breadChoice

    IF breadChoice < 1 OR breadChoice > 3 THEN
        OUTPUT "Please enter a valid choice of bread
            [1-3]."
    ELSE
        breadType[breadChoice] =
            breadType[breadChoice] + 1
        breadFlag = True
    END IF
END WHILE

OUTPUT "Baguette fillings:"
OUTPUT "1. Beef"
OUTPUT "2. Chicken"
OUTPUT "3. Cheese"
OUTPUT "4. Egg"
OUTPUT "5. Tuna"
OUTPUT "6. Turkey"

fillingFlag = FALSE
```





Pseudocode

```
WHILE fillingFlag = FALSE
    OUTPUT "Enter your choice [1-6]: "
    INPUT fillingChoice

    IF fillingChoice < 1 OR fillingChoice > 6 THEN
        OUTPUT "Please enter a valid choice of
        filling [1-6]."
    ELSE
        fillings[fillingChoice] = _
        fillings[fillingChoice] + 1
        fillingFlag = TRUE
    END IF
END WHILE

saladCount = 0

OUTPUT "Salad options:"
OUTPUT "1. Lettuce"
OUTPUT "2. Tomato"
OUTPUT "3. Sweetcorn"
OUTPUT "4. Cucumber"
OUTPUT "5. Peppers"

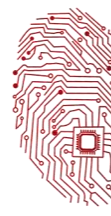
OUTPUT "Would you like to add salads to your baguette?
(Y/N)"
INPUT addSalad

IF UPPER(addSalad) = "Y" THEN
    saladFlag = FALSE
    more = TRUE

    WHILE saladFlag = FALSE OR (saladCount < 3 AND more
    = TRUE)
        OUTPUT "You may choose up to" & (3 -
        saladCount) & " more salad(s). Enter
        your next choice [1-5]: "
        INPUT saladChoice

        IF saladChoice < 1 OR saladChoice > 5 THEN
            OUTPUT "Please enter a valid choice
            of salad [1-5]."
        ELSE
            salad[SaladChoice] = _
            salad[SaladChoice] + 1
            saladFlag = TRUE
            saladCount = saladCount + 1
            saladChoiceList[saladCount] = _
```





Pseudocode

```
saladChoice

IF saladCount < 3 THEN
    OUTPUT "Would you like to add
           another salad? (Y/N): "
    INPUT more

    IF UPPER(more) = "Y" THEN
        more = TRUE
    ELSE
        more = FALSE
    END IF
END IF

END WHILE
END IF

sizeDisplay = baguetteSizeName[sizeChoice]
bread = breadTypeName[breadChoice]
filling = fillingsName[fillingChoice]

OUTPUT "Your ordered baguette:"
OUTPUT ""
OUTPUT "Size:"
OUTPUT sizeDisplay
OUTPUT "Bread:"
OUTPUT bread
OUTPUT "Filling:"
OUTPUT filling
OUTPUT "Salad(s):"

FOR saladCount = 1 TO 3
    IF saladChoiceList[saladCount] <> "" THEN
        OUTPUT saladName[saladChoiceList[saladCount]]
    END IF
NEXT

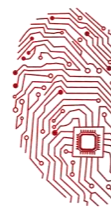
OUTPUT "Confirm order? (Y/N): "
INPUT confirmOrder

IF UPPER(confirmOrder) = "N" THEN
    confirmOrder = FALSE

    changeOrder = FALSE
    cancelOrder = FALSE

    WHILE changeOrder = FALSE AND cancelOrder = FALSE
        OUTPUT "Would you like to change your order
               or cancel it? (change/cancel): "
```





Pseudocode

```
INPUT changeOrderChoice

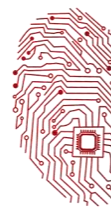
IF UPPER(changeOrderChoice) = "CHANGE" THEN
    changeOrder = TRUE
ELSEIF UPPER(changeOrderChoice) = "CANCEL"
    THEN
    cancelOrder = TRUE
ELSE
    OUTPUT "Please enter a valid choice:"
END IF
END WHILE

ELSEIF UPPER(confirmOrder) = "Y" THEN
    changeOrder = FALSE
    cancelOrder = FALSE
    orderNo = orderNo + 1
    OUTPUT "Your order number is: " & orderNo)
END IF
END WHILE

OUTPUT "Would you like to order another baguette? (Y/N): "
INPUT moreOrderChoice

IF UPPER(moreOrderChoice) = "Y" THEN
    moreOrder = TRUE
ELSE
    moreOrder = FALSE
    CALL Task23()
END IF
END WHILE
```





Pseudocode

PROCEUDRE Task23()

```
DECLARE totalSize15 : INTEGER
DECLARE totalSize30 : INTEGER

DECLARE totalBreadWhite : INTEGER
DECLARE totalBreadBrown : INTEGER
DECLARE totalBreadSeeded : INTEGER

DECLARE totalFillingBeef : INTEGER
DECLARE totalFillingChicken : INTEGER
DECLARE totalFillingCheese : INTEGER
DECLARE totalFillingEgg : INTEGER
DECLARE totalFillingTuna : INTEGER
DECLARE totalFillingTurkey : INTEGER

DECLARE totalBaguettesSold : INTEGER

totalBaguettesSold = orderNo

totalSize15 = baguetteSize[1]
totalSize30 = baguetteSize[2]

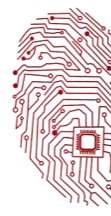
totalBreadWhite = breadType[1]
totalBreadBrown = breadType[2]
totalBreadSeeded = breadType[3]

totalFillingBeef = fillings[1]
totalFillingChicken = fillings[2]
totalFillingCheese = fillings[3]
totalFillingEgg = fillings[4]
totalFillingTuna = fillings[5]
totalFillingTurkey = fillings[6]

DECLARE mostFilling : INTEGER
DECLARE leastFilling : INTEGER
DECLARE mostPopularPerc : REAL
DECLARE leastPopularPerc : REAL
DECLARE mostPopularName : STRING = ""
DECLARE leastPopularName : STRING = ""

mostFilling = -10000
leastFilling = 10000
```





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```
FOR Count = 1 TO 6
    IF fillings[Count] > mostFilling THEN
        mostFilling = fillings[Count]
        mostPopularName = fillingsName[Count]
    ELSEIF fillings[Count] < leastFilling THEN
        leastFilling = fillings[Count]
        leastPopularName = fillingsName[Count]
    END IF
NEXT

mostPopularPerc = (mostFilling / orderNo) * 100
leastPopularPerc = (leastFilling / orderNo) * 100

OUTPUT ""
OUTPUT "The most popular baguette filling was " & mostPopularName & "
with an order of " & mostPopularPerc & "%"
OUTPUT "The least popular baguette filling was " & leastPopularName & "
with an order of " & leastPopularPerc & "%"

END PROCEDURE
```

