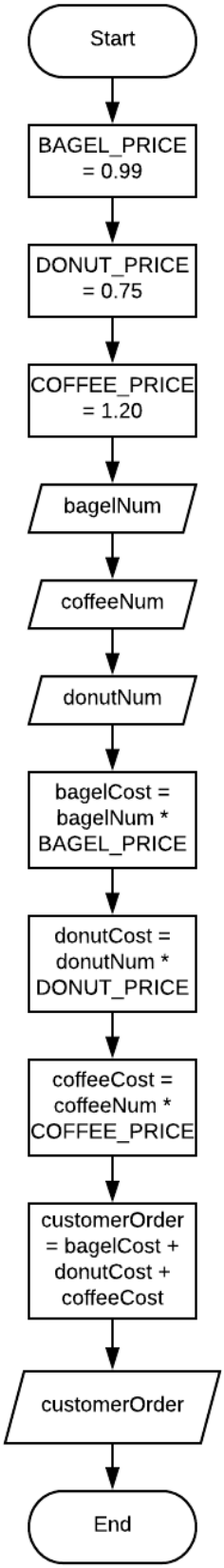
Homework Programming Logic and Design Chapter 1 Part 2 Key
For each of the following questions, find the inputs and outputs, write the pseudocode, and desk check the pseudocode. You will create a Raptor file for the flowchart of each as well. This will be submitted in a separate file.

1. A bagel store wants a program to calculate a customer's order. The customers can purchase bagels, donuts, and/or coffee. Bagels are 0.99, donuts are 0.75, and coffee is $1.20.

Inputs	**Process**	**Outputs**
BAGEL_PRICE = 0.99	bagelCost	CustomerOrder
DONUT_PRICE = 0.75	donutCost	
COFFEE_PRICE = 1.20	coffeeCost	
bagelNum		
donutNum		
coffeeNum		

Pseudo Code:

1. Set BAGEL_COST, DONUT_COST, COFFEE_COST
2. Enter bagelNum, donutNum, coffeeNum
3. Calculate bagelCost by multiplying BAGEL_COST * bagelNum
4. Calculate donutCost by multiplying DONUT_COST * donutNum
5. Calculate coffeeCost by multiplying COFFEE_COST * coffeeNum
6. Calculate customerOrder by adding bagelCost + donutCost + coffeeCost
7. Display customerOrder


Start
BAGEL_PRICE = 0.99
DONUT_PRICE = 0.75
COFFEE_PRICE = 1.20
bagelNum
coffeeNum
donutNum
bagelCost = bagelNum * BAGEL_PRICE
donutCost = donutNum * DONUT_PRICE
coffeeCost = coffeeNum * COFFEE_PRICE
customerOrder = bagelCost + donutCost + coffeeCost
customerOrder
End

Desk Check

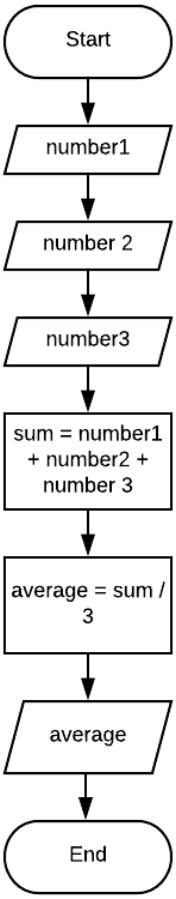
BAGEL_ PRICE	DONUT_ PRICE	COFFEE_ PRICE	Bagel Num	Donut Num	Coffee Num	Bagel Cost	Donut Cost	Coffee Cost	Customer Order
0.99	0.75	1.20	1	2	3	0.99 * 1 = 0.99	0.75 * 2 = 1.50	1.20 * 3 = 3.60	0.99 + 1.50 + 3.60 = 6.09
0.99	0.75	1.20	3	5	8	0.99 * 3 = 2.97	0.75 * 5 = 3.75	1.20 * 8 = 9.60	2.97 + 3.75 + 9.60 = 16.32

2. Create a program that accepts three numbers. The program will find and display the average of the numbers.

Inputs	**Process**	**Outputs**
number1	sum	average
number 2		
number 3		

Pseudo Code:

1. Input number1
2. Input number2
3. Input number3
4. Calculate sum by adding number1, number2, number3
5. Calculate average by dividing the sum by 3
6. Display average

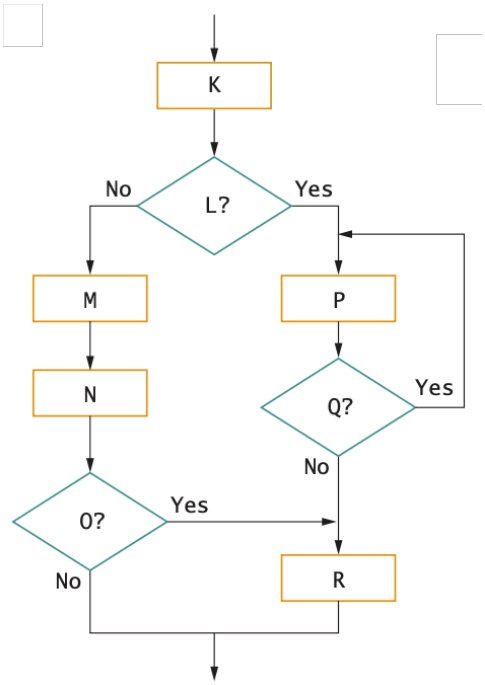


Desk Check

Number 1	Number 2	Number 3	Sum	Average
5	9	9	5+9+9=23	23/3=7.67
16	88	9	16+88+9=113	113/3=37.67

For this last problem, correct the flowchart by creating a structured one. You can use a free tool called Lucidchart on the web to create your flowchart.

3.



Solution: