1.

IPO Chart Information	C# Statements

Input:
averageLength
numberOfHouses
Processing:
multiply
Output:
totalLength
Algorithm:
1. Prompt for averageLength
2. Accept averageLength
3. Prompt for numberOfHouses
4. Accept numberOfHouses
5. Calculate the totalLength by multiplying averageLength by numberOfHouses
6. Display totalLength
	//Input
	double averageLength;
	double numberOfHouses;
	//Processing
	double multiply;
	//Output
	double totalLength;
	//Algorithm
	Console.Write("Enter the average length");
	averageLength =
	Convert.ToDouble(Console.ReadLine());
	Console.Write("Enter the number of houses");
	numberOfHouses =
	Convert.ToDouble(Console.ReadLine());
	totalLength = averageLength * numberOfHouses;
	Console.Write(totalLength);

2.

IPO Chart Information	C# Statements

Input:
rateOfFertilizer
sizeOfLand
priceOfFertilizer
Processing:
multiply
Output:
costOfFertilizer
Algorithm:
7. Prompt for rateOfFertilizer
8. Accept rateOfFertilizer
9. Prompt for sizeOfLand
10. Accept sizeOfLand
11. Prompt for priceOfFertilizer
12. Accept priceOfFertilizer
13. Calculate the multiply by multiplying rateOfFertilizer by sizeOfLand
14. Calculate the costOfFertilizer by multiplying multiply by priceOfFertilizer
15. Display costOfFertilizer
	//Input
	double rateOfFertilizer;
	double sizeOfLand;
	double priceOfFertilizer;
	//Processing
	double multiply;
	//Output
	double costOfFertilizer;
	//Algorithm
	Console.Write("Enter the rate of fertilizer ");
	rateOfFertilizer = Convert.ToDouble
	(Console.ReadLine());
	Console.Write("Enter the size of land ");
	sizeOfLand = Convert.ToDouble
	(Console.ReadLine());
	Console.Write("Enter the price of fertilizer ");
	priceOfFertilizer = Convert.ToDouble
	(Console.ReadLine());
	multiply = rateOfFertilizer * sizeOfLand;
	costOfFertilizer = multiply * priceOfFertilizer;
	Console.Write(costOfFertilizer);

3.

IPO Chart information	C# Statements

Input
SaleTickets
BroadAdds
Rent
Processing
Sum
Output
Profit
Algorithm
1. Prompt for SaleTickets
2. Accept the SaleTickets
3. Prompt for BroadAdds
4. Accept the BroadAdds
5. Prompt for Rent
6. Accept the Rent
7. Calculate the Sum by adding SaleTickets and BroadAdds
8. Calculate the Profit by subtracting Sum by Rent
9. Display Profit
	//Input
	double SaleTickets, BroadAdds, Rent;
	//Processing
	double Sum;
	//Output
	double Profit;
	//Algorithm
	Console.WriteLine("Sale of tickets:");
	SaleTickets = Convert.ToDouble(Console.ReadLine());
	Console.WriteLine("Broadcasting rights and advertising:");
	BroadAdds=Convert.ToDouble(Console.ReadLine());
	Console.WriteLine("Rent of center:");
	Rent = Convert.ToDouble(Console.ReadLine());
	Sum= BroadAdds + SaleTickets;
	Profit = Sum - Rent;
	
	Console.WriteLine("Profit= $" + Profit);

4.

IPO Chart information	C# Statements

Input
Km
PriceFuel
Efficiency
Processing
multiply
Output
cost
Algorithm
10. Prompt for Km
11. Accept the Km
12. Prompt for PriceFuel
13. Accept the PriceFuel
14. Prompt for Efficiency
15. Accept the Efficiency
16. Calculate the multiply by multiplying Km by Efficiency
17. Calculate the cost by multiplying multiply by PriceFuel
18. Display cost
	//Input
	double Km, PriceFuel, Efficiency;
	//Processing
	double multiply;
	//Output
	double cost;
	//Algorithm
	Console.WriteLine("Amount of Km:");
	Km = Convert.ToDouble(Console.ReadLine());
	Console.WriteLine("Price of unit of fuel:");
	PriceFuel=Convert.ToDouble(Console.ReadLine());
	Console.WriteLine("Amount of units of fuel used for each Km:");
	Efficiency = Convert.ToDouble(Console.ReadLine());
	multiply= Km * Efficiency;
	cost= multiply * PriceFuel;
	
	Console.WriteLine("Cost= $" + cost);

5.

IPO Chart information	C# Statements
Input weightProduce	//Input double weightProduce, weightProducePrice,

weightProducePrice
 	
bagPrice
bagCapacity
 	
Processing
priceProduce
numberBags
 	
Output
cost
 	
Algorithm
1. Prompt for weightProduce
2. Accept the weightProduce
3. Prompt for weightProducePrice
4. Accept the weightProducePrice
5. Prompt for bagCapacity
6. Accept the bagCapacity
7. Prompt for bagPrice
8. Accept the bagPrice
 	
9. Calculate the priceProduce (cost of the sale without bags) by multiplying the weightProduce with the weightProducePrice
 	
10. Calculate the numberBags (number of bags that is necessary) by dividing the weightProduce by the bagCapacity
 	
11. Calculate the cost by multiplying the numberBags by the bagPrice and adding to the priceProduce.
 	
12. Display cost converting the cost to a currency value
	bagPrice, bagCapacity
	
	//Processing
	double priceProduce;
	int numberBags;
	
	//Output
	double cost;
	
	//Algorithm
	Console.WriteLine("Enter the weight of the produce: ");
	weightProduce= Convert.ToDouble(Console.ReadLine());
	
	Console.WriteLine("Console.WriteLine("Enter the price weight of the produce: ");
	");
	weightProducePrice=Convert.ToDouble(Console.ReadLine());
	
	Console.WriteLine("Console.WriteLine("Enter the capacity of the bag: ");
	");
	bagCapacity=Convert.ToInt32(Console.ReadLine());
	
	Console.WriteLine("Console.WriteLine("Enter the price of the bag: ");
	");
	bagPrice=Convert.ToDouble(Console.ReadLine());
	
	priceProduce = weightProduce * weightProducePrice;
	numberBags= (int)(weightProduce / bagCapacity);
	cost = priceProduce + (numberBags + bagPrice);
	
	Console.WriteLine("The total cost is " + (cost.ToString("C")));

6.

IPO Chart information	C# Statements

Input
itemPrice
amountMoney
 	
Processing
division
remainder (%)
 	
Output
numberOfItems
	//Input
	double itemPrice, amountMoney;
	
	//Processing
	int division;
	
	//Output
	int numberOfItems;
	double leftOverMoney;

leftOverMoney
 	
Algorithm
1. Prompt for itemPrice
2. Accept the itemPrice
3. Prompt for amountMoney
4. Accept the amountMoney
5. Calculate the division by dividing amountMoney by itemPrice
6. Calculate the remainder by using the operator, modulus (%), to retrieve the remainder: amountMoney % itemPrice
7. Display numberOfItems converting the leftOverMoney to a currency value
	//Algorithm
	Console.WriteLine("How much is the item?");
	itemPrice = Convert.ToDouble(Console.ReadLine());
	
	Console.WriteLine("How much money do you have?");
	amountMoney=Convert.ToDouble(Console.ReadLine());
	
	division = amountMoney / itemPrice;
	numberOfItems = Convert.ToInt32(division);
	leftOverMoney = amountMoney % itemPrice;
	
	Console.WriteLine("You can buy " + numberOfItems + " items, and the left-over is " + (leftOverMoney.ToString("C")));

7.

IPO Chart information	C# Statements

Input:
lengthRate
length
joinRate
numberOfJoins
 	
Processing:
lengthCost
joinCost
 	
Output:
cost
 	
Algorithm:
1. Prompt for lengthRate
2. Accept lengthRate
3. Prompt for length
4. Accept length
5. Prompt for joinRate
6. Accept joinRate
7. Prompt for numberOfJoins
8. Accept numberOfJoins
9. Calculate lengthCost = lengthRate * length
10. Calculate joinCost = joinRate * numberOfJoins
11. Calculate cost = lengthCost + joinCost
12. Display cost
	//Input
	double lengthRate;
	double length;
	double joinRate;
	double numberOfJoins;
	
	//Processing
	double lengthCost;
	double joinCost;
	
	//Output
	double cost;
	
	//Algorithm
	Console.Write("Enter the length rate: ");
	lengthRate =
	Convert.ToDouble(Console.ReadLine());
	Console.Write("Enter the length: ");
	length =
	Convert.ToDouble(Console.ReadLine());
	Console.Write("Enter the join rate: ");
	joinRate =
	Convert.ToDouble(Console.ReadLine());
	Console.Write("Enter the number of joins: ");
	numberOfJoins =
	Convert.ToDouble(Console.ReadLine());
	lengthCost = lengthRate * length;
	joinCost = joinRate * numberOfJoins;
	cost = lengthCost + joinCost;
	Console.Write("Total cost: " + cost);

8.

IPO Chart information	C# Statements

Input:
amountOfTickets
polarRides
ferrisRides
 	
Processing:
subtractionPolar
 	
Output:
ticketsLeft
 	
Algorithm:
1. Prompt for amountOfTickets
2. Accept amountOfTickets
3. Prompt for polarRides
4. Accept polarRides
5. Prompt for ferrisRides
6. Accept ferrisRides
7. Calculate subtractionPolar = amountOfTickets - polarRides
8. Calculate ticketsLeft = subtractionPolar - ferrisRides
9. Display ticketsLeft
	//Input
	int amountOfTickets;
	int polarRides;
	int ferrisRides;
	
	//Processing
	int subtractionPolar;
	
	//Output
	int ticketsLeft;
	
	//Algorithm
	Console.Write("Enter the amount of tickets bought: ");
	amountOfTickets = Convert.ToInt32(Console.ReadLine());
	Console.Write("Enter the number of Polar Express rides taken: ");
	polarRides = Convert.ToInt32(Console.ReadLine());
	Console.Write("Enter the number of Ferris wheel rides taken: ");
	ferrisRides = Convert.ToInt32(Console.ReadLine());
	subtractionPolar = amountOfTickets - polarRides;
	ticketsLeft = subtractionPolar - ferrisRides;
	Console.WriteLine("Tickets remaining: " + ticketsLeft);

9.

IPO Chart information	C# Statements

Input:
price
budget
 	
Processing:
 	
Output:
candyAmount
budgetRemainder
 	
Algorithm:
1. Prompt price
2. Accept price
3. Prompt budget
4. Accept budget
5. Calculate candyAmount = budget / price
6. Calculate budgetRemainder =
	//Input
	double price;
	double budget;
	
	//Processing
	
	//Output
	double candyAmount;
	double budgetRemainder;
	
	//Algorithm
	Console.WriteLine("Enter price of candy: ");
	price = Convert.ToDouble(Console.ReadLine());
	Console.WriteLine("Enter budget: ");
	budget = Convert.ToDouble(Console.ReadLine());
	candyAmount = budget / price;
	budgetRemainder = budget - (candyAmount *

budget - (candyAmount * price) 7. Display candyAmount 8. Display budgetRemainder	price); Console.WriteLine($"Total amount of candies that can be purchased: {candyAmount}"); Console.WriteLine($"Remaining balance after purchase: {budgetRemainder}");

10.

IPO Chart information	C# Statements

Input:
distance
towingRate
flatServiceRate
Processing:
 	
Output:
cost
 	
Algorithm:
1. Enter distance
2. Accept distance
3. Enter towingRate
4. Accept towingRate
5. Enter flatServiceRate
6. Accept flatServiceRate
7. Calculate cost = distance * towingRate + flatServiceRate
8. Display cost
	//Input
	double distance;
	double towingRate;
	double flatServiceRate;
	//Processing
	
	//Output
	double cost;
	
	//Algorithm
	Console.WriteLine("Enter the distance: ");
	distance = Convert.ToDouble(Console.ReadLine());
	Console.WriteLine("Enter the towing rate: ");
	towingRate = Convert.ToDouble(Console.ReadLine());
	Console.WriteLine("Enter the flat service rate: ");
	flatServiceRate = Convert.ToDouble(Console.ReadLine());
	cost = distance * towingRate + flatServiceRate;
	Console.WriteLine($" Total cost: {cost}");