Analysis Documentation

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Project Name: Assignment 6  
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# Program Inputs

* howManyOrders – how many orders the user is going to enter this session
* businessName- the business name the use enters
* howManyGPS – the number of GPS units that are ordered by that company

# Processing

## Validation

* Check to see if howManyOrders is a valid value
  + howManyOrders > 0
* Check to see if Business name is valid
  + businessName length > 0
* Check to see if number of GPS units is valid
  + howManyGps > 0

## Accumulators

* Each for loop will use accumulators
  + Eg i=0 ; do stuff ; i++

## Calculations

* Has to calculate the how many boxes are need for items
  + Boxes = items / box capacity
* Have to calculate the how many items are remaining
  + leftOvers = items % box capacity
* Need to calculate how many boxes of each size were used to fulfill each order
  + Box of a particular size += boxes used in shipment

# Program Outputs

## Initial Message

* Print “Red River Electronics”
* Print “Shipping System”
* Print “-----------------------“

## Prompts for Input

* Print “How many shipments to enter? “
* Print “Business Name: “
* Print “Enter the number of GPS receivers to ship: “

## Error Messages

* Print “\*\*Error \*\* - Invalid number of shipments”
* Print “\*\*Error \*\* - Name is required “
* Print “\*\*Error \*\* - Number of GPS receivers must be greater than zero”

## Order Summary

* Print “Boxes required”
* Print box Label “ – “ + boxes required for that size

## End Report

* Print “Summary”
* Print “--------- “
* Print “Shipment #“ + shipment number + “ – “ + businessName
* Print Box Label + “ – “ + boxes for that size “,”
* Print Box Label + “ – “ + boxes for that size
* Print “ Total Number of containers required for these shipments:”
* Print Label of Box size + “ – “ boxes

# Other Considerations

* Needs to be designed in a way that size of boxes and types of boxes can be easily modified