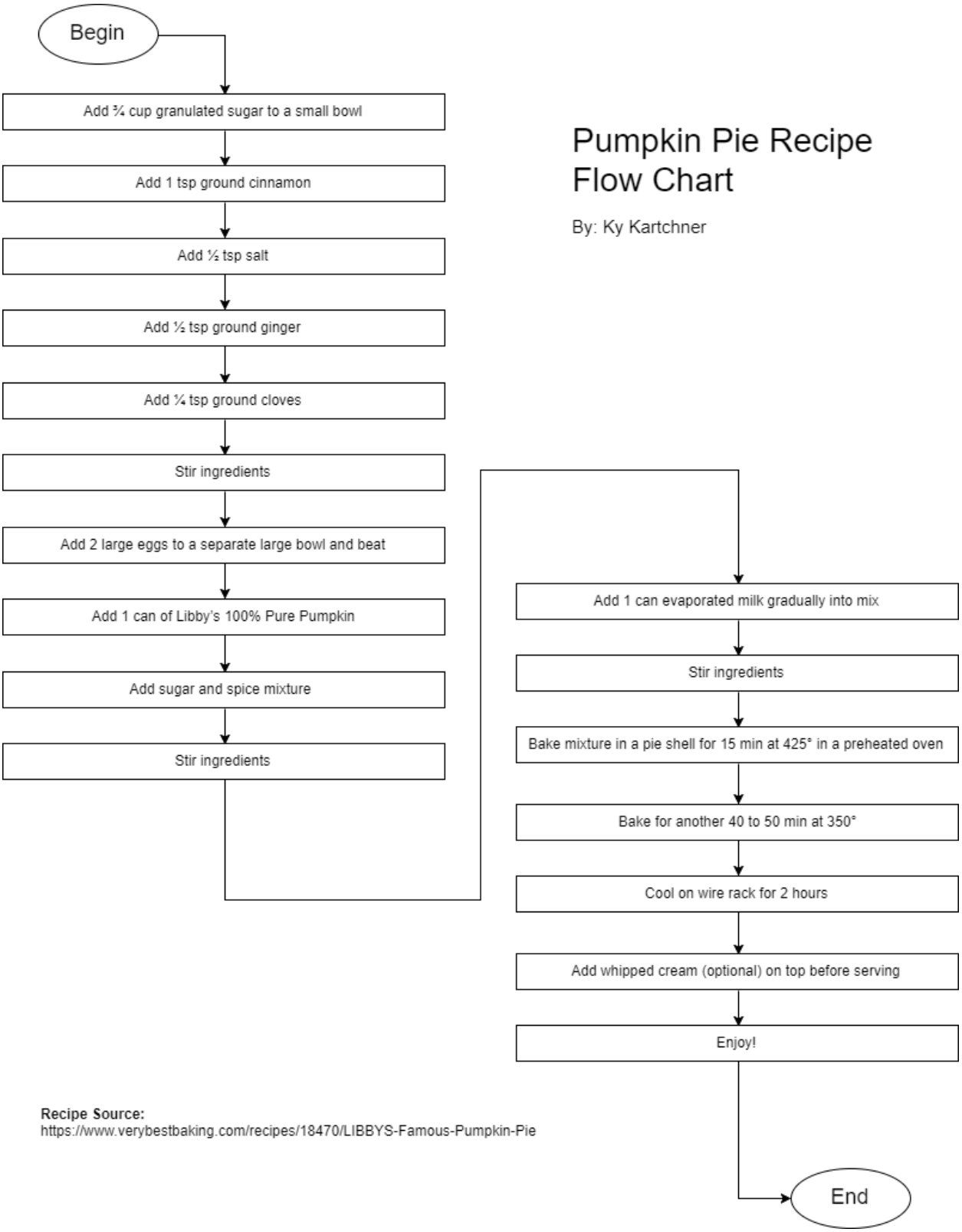
#1

Flowcharts and Psuedocode – Ky Kartchner



Recipe Source:
https://www.verybestbaking.com/recipes/18470/LIBBYS-Famous-Pumpkin-Pie

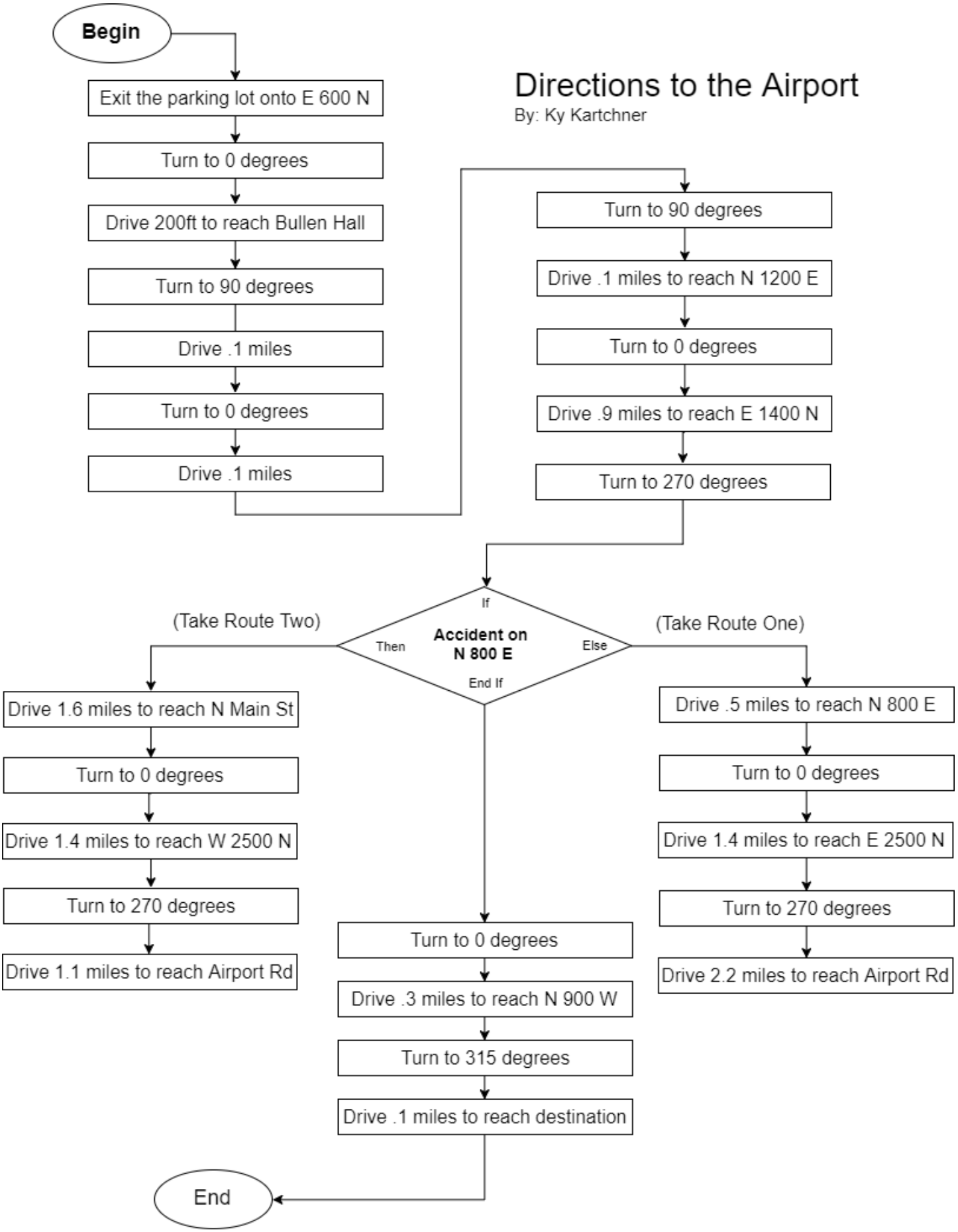
#2

Pumpkin Pie Pseudocode:

Begin
- Add ¾ cup granulated sugar to a small bowl
- Add 1 tsp ground cinnamon
- Add ½ tsp salt
- Add ½ tsp ground ginger
- Add ¼ tsp ground cloves
- Stir ingredients
- Add 2 large eggs to a separate large bowl and beat
- Add 1 can of Libby's 100% Pure Pumpkin
- Add sugar and spice mixture
- Stir ingredients
- Add 1 can evaporated milk gradually into mix
- Stir ingredients
- Bake mixture in a pie shell for 15 min at 425° in a preheated oven
- Bake for another 40 to 50 min at 350°
- Cool on wire rack for 2 hours
- Add whipped cream (optional) on top before serving

End

#3


Begin
Directions to the Airport
By: Ky Kartchner
Exit the parking lot onto E 600 N
Turn to 0 degrees
Drive 200ft to reach Bullen Hall
Turn to 90 degrees
Drive .1 miles
Turn to 0 degrees
Drive .1 miles
Turn to 90 degrees
Drive .1 miles to reach N 1200 E
Turn to 0 degrees
Drive .9 miles to reach E 1400 N
Turn to 270 degrees
If
Then
Accident on N 800 E
Else
End If
(Take Route Two)
(Take Route One)
Drive 1.6 miles to reach N Main St
Turn to 0 degrees
Drive 1.4 miles to reach W 2500 N
Turn to 270 degrees
Drive 1.1 miles to reach Airport Rd
Drive .5 miles to reach N 800 E
Turn to 0 degrees
Drive 1.4 miles to reach E 2500 N
Turn to 270 degrees
Drive 2.2 miles to reach Airport Rd
Turn to 0 degrees
Drive .3 miles to reach N 900 W
Turn to 315 degrees
Drive .1 miles to reach destination
End

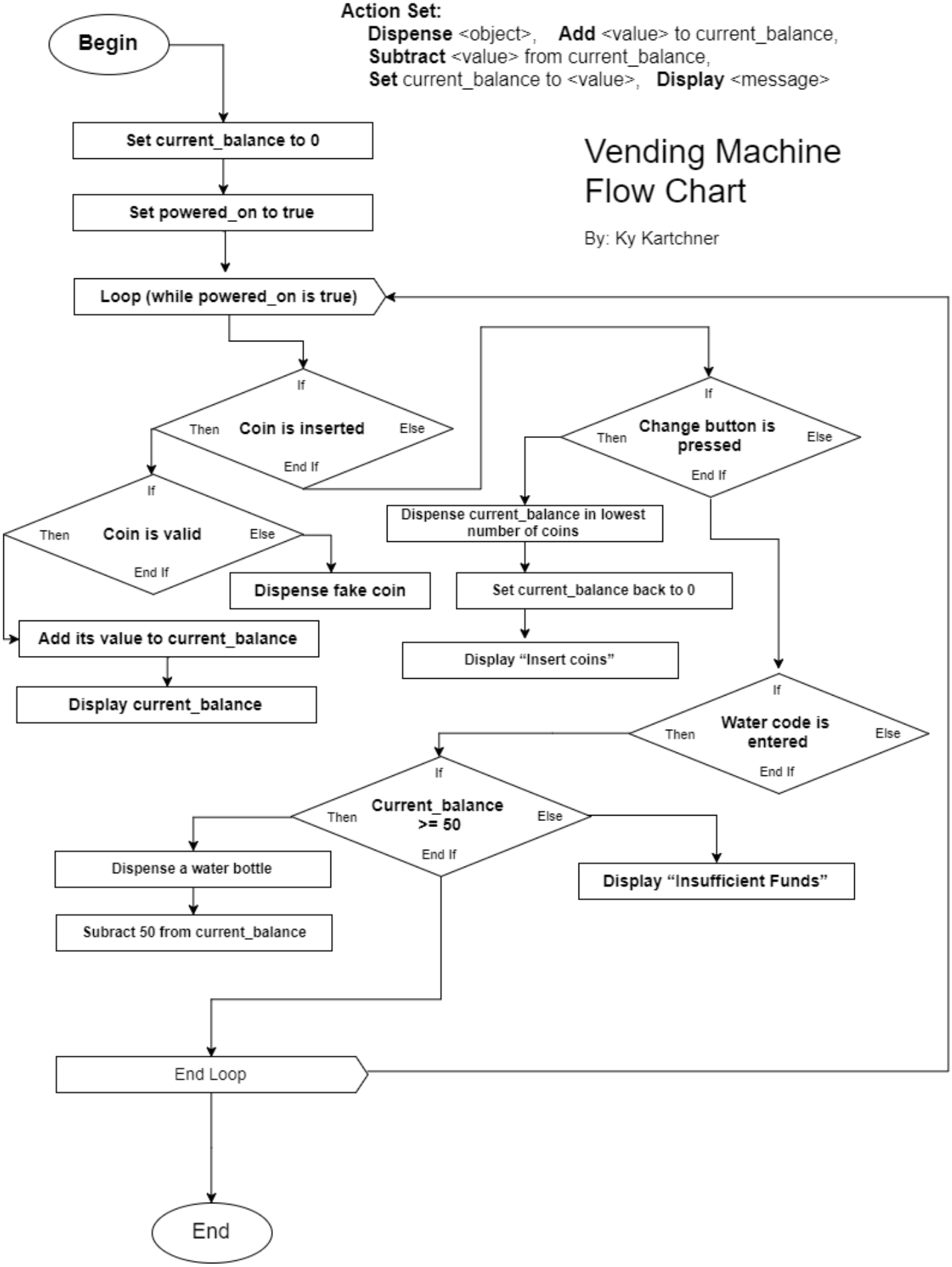
#4

Directions to the Airport (starting from the parking lot north of the Engineering Lab)

Begin
- Exit the parking lot onto E 600 N
- Turn to 0 degrees
- Drive 200ft to Bullen Hall
- Turn to 90 degrees
- Drive .1 miles
- Turn to 0 degrees
- Drive .1 miles
- Turn to 90 degrees
- Drive .1 miles to reach N 1200 E
- Turn to 0 degrees
- Drive .9 miles to reach E 1400 N
- Turn to 270 degrees
- If accident on N 800 E
  - (Take Path Two)
  - Drive 1.6 miles to reach N Main St
  - Turn to 0 degrees
  - Drive 1.4 miles to reach W 2500 N
  - Turn to 270 degrees
  - Drive 1.1 miles to reach Airport Rd
- Else
  - (Take Path One)
  - Drive .5 miles to reach N 800 E
  - Turn to 0 degrees
  - Drive 1.4 miles to reach E 2500 N
  - Turn to 270 degrees
  - Drive 2.2 miles to reach Airport Rd
- End If
- Turn to 0 degrees
- Drive .3 miles to reach N 900 W
- Turn to 315 degrees
- Drive .1 miles to reach destination

End

#5


Action Set:
Dispense <object>, Add <value> to current_balance,
Subtract <value> from current_balance,
Set current_balance to <value>, Display <message>
Vending Machine Flow Chart
By: Ky Kartchner
Begin
Set current_balance to 0
Set powered_on to true
Loop (while powered_on is true)
If
Then Coin is inserted Else
End If
If
Then Coin is valid Else
End If
Dispense fake coin
Add its value to current_balance
Display current_balance
If
Then Change button is pressed Else
End If
Dispense current_balance in lowest number of coins
Set current_balance back to 0
Display "Insert coins"
If
Then Water code is entered Else
End If
If
Then Current_balance >= 50 Else
End If
Dispense a water bottle
Subract 50 from current_balance
Display "Insufficient Funds"
End Loop
End

#6

Vending Machine Psuedocode:

```
Begin
    Set current_balance to 0
    Set powered_on to true
    Loop (while powered_on is true)
        If coin is inserted
            Determine if it is valid
            If it is valid
                Add its value to current_balance
                Display current_balance
            Else
                Dispense the fake coin
            End If
        End If
        If change button is pressed
            Dispense current_balance in lowest number of coins
            Set current_balance back to 0
            Display “Insert coins”
        End If
        If water code is entered
            If current_balance is greater than or equal to 50
                Dispense a water bottle
                Subract 50 from current_balance
            Else
                Display “Insufficient Funds”
            End If
        End If
    End Loop
End
```