

# AIRPROT LINK

จัดทำโดย

นางสาวสิริวิบูล แสงกอง รหัสบัตร 6530300554

รหัสวิชา 0360312-65 ชื่อวิชา PROGRAMMING FUNDAMENTALS

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ปีการศึกษา 2565



# UI

## Bus type

City line  
 Express line

## distance

zone from

zone to

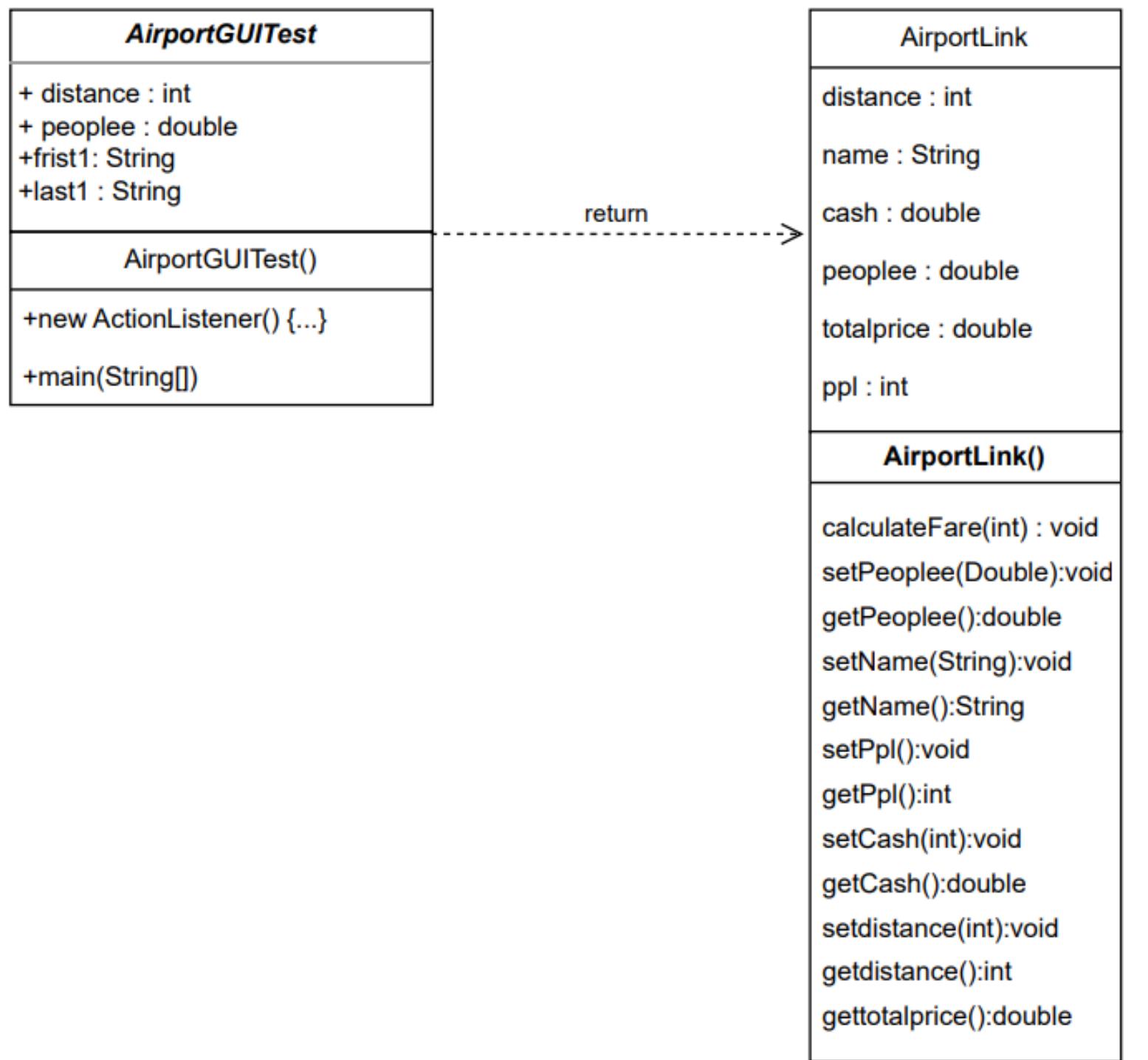
## How many ppl?

## Calculate fare

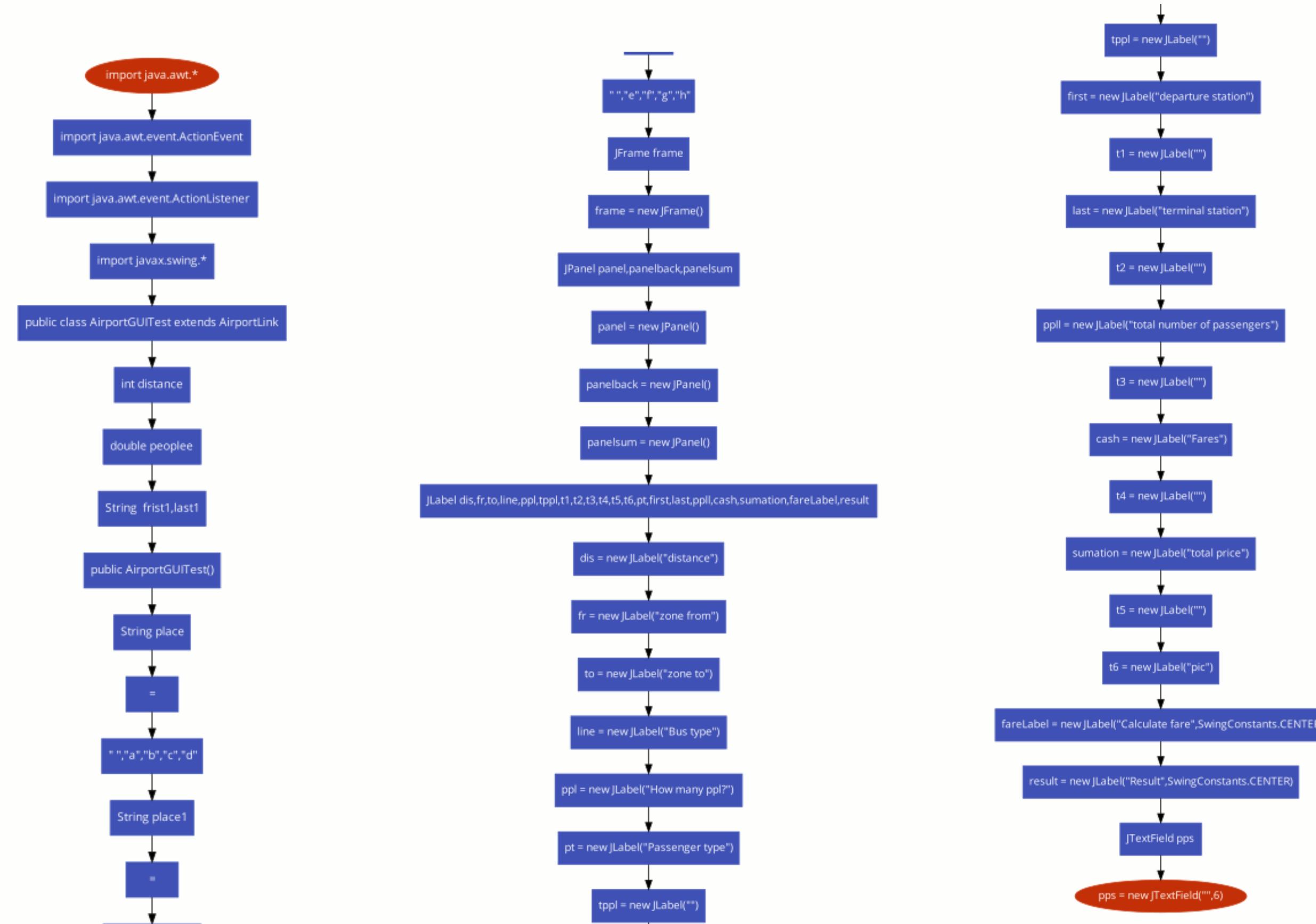
### Result

Passenger type  
Express line  
departure station  
a  
terminal station  
e  
total number of passengers  
2.0 people  
Fares  
300.0  
total price  
600.0  
pic

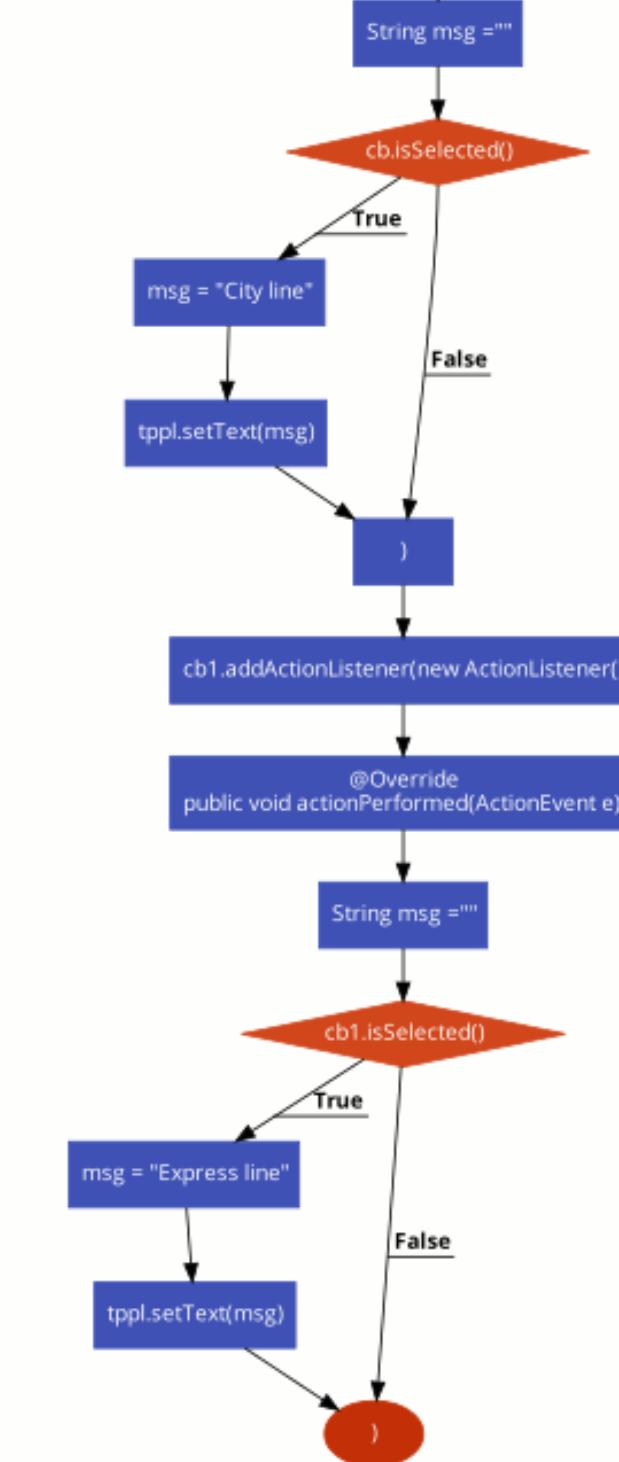
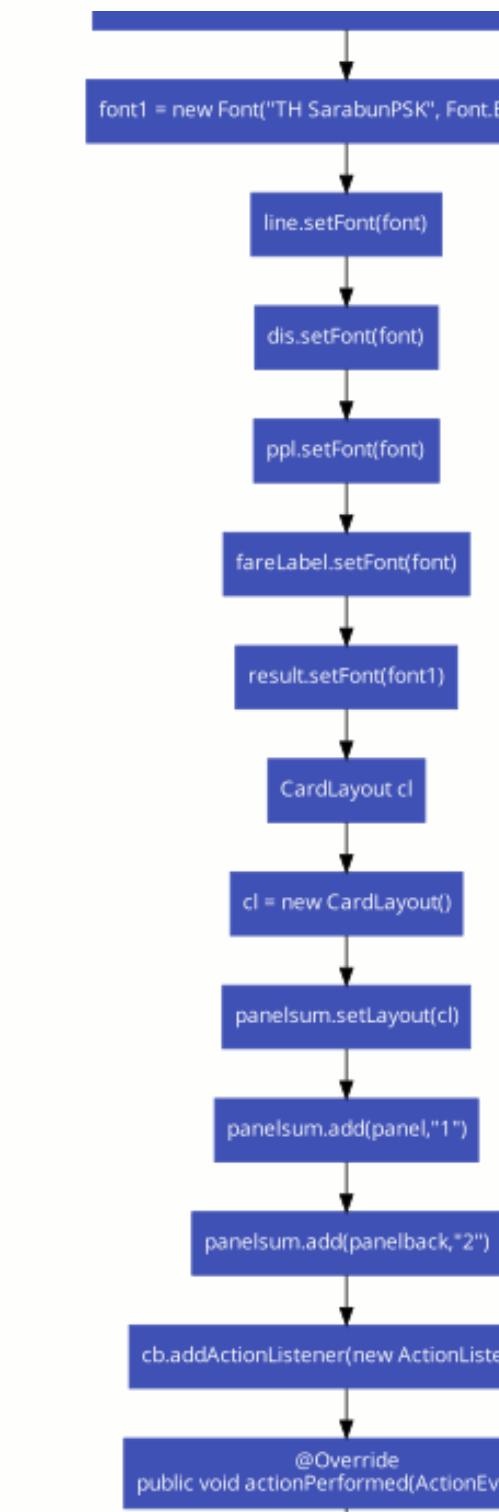
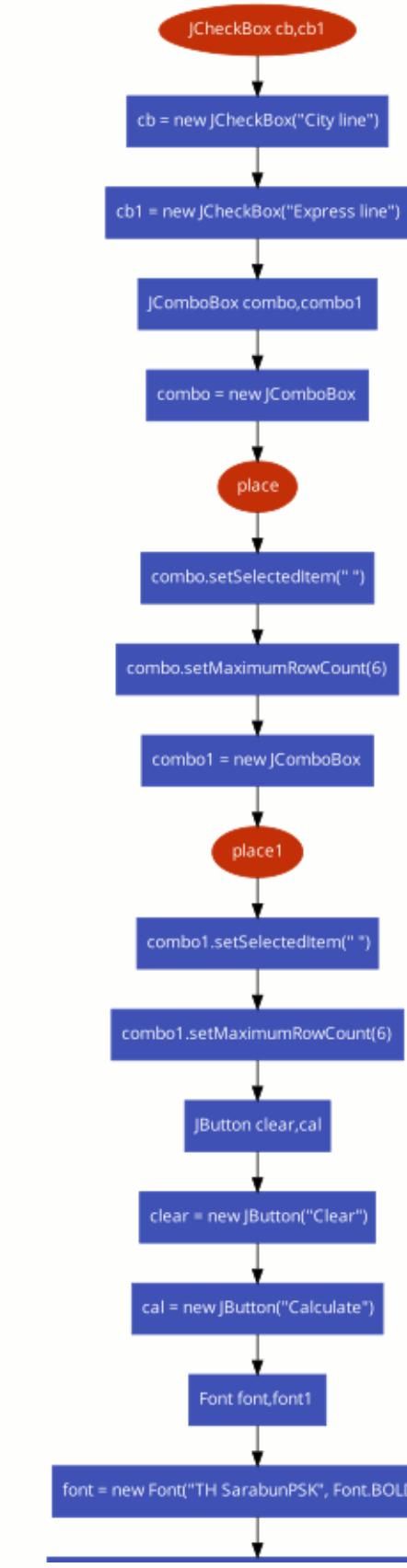
# CLASS DIAGRAM



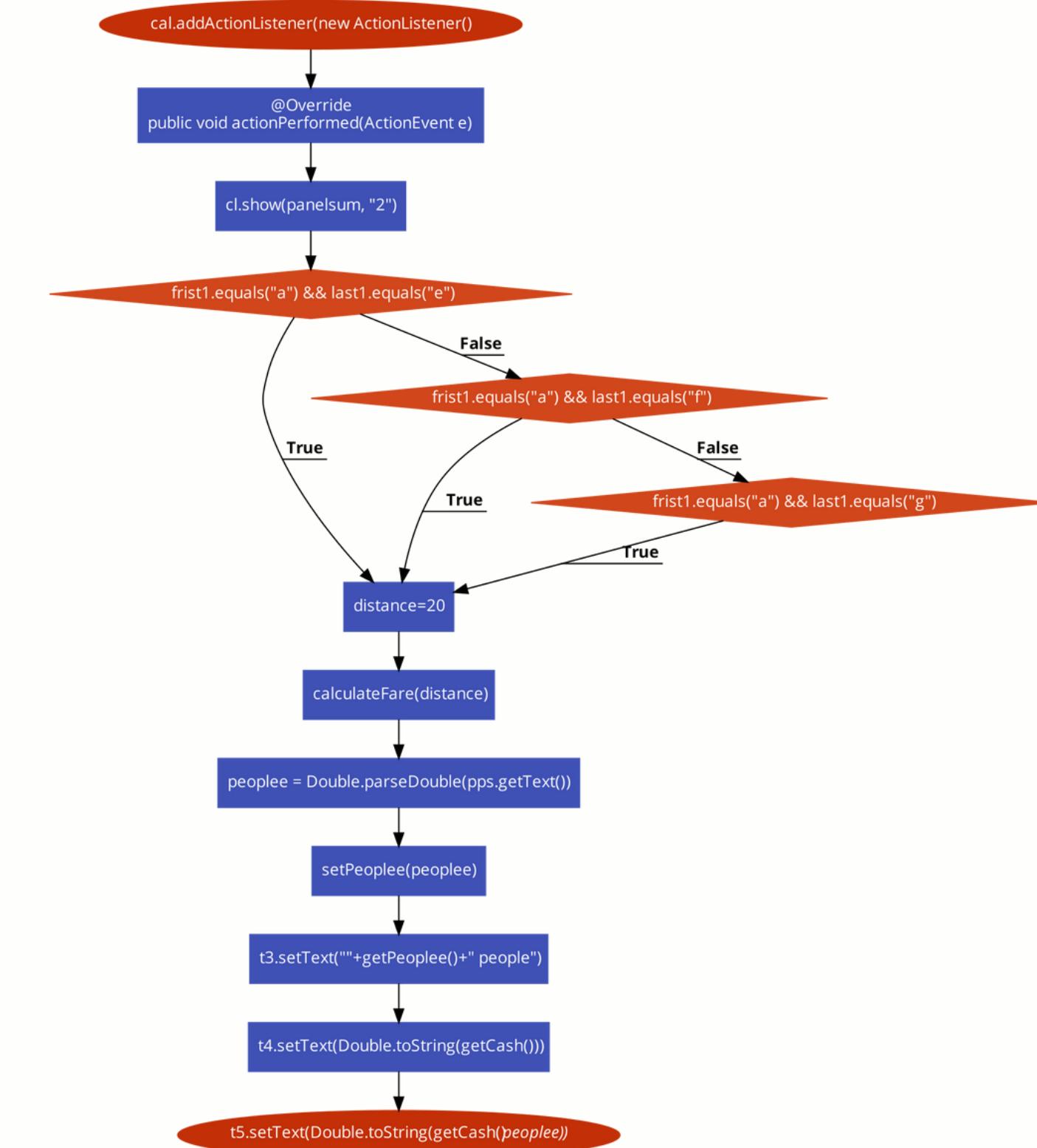
# ALGORITHM AIRPORT LINK



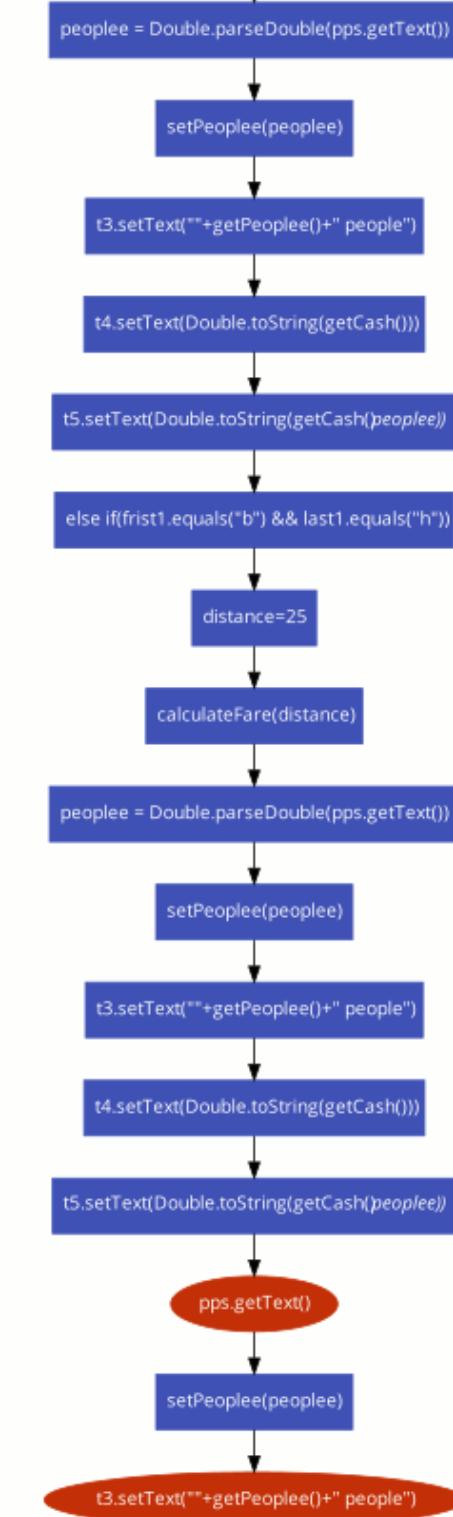
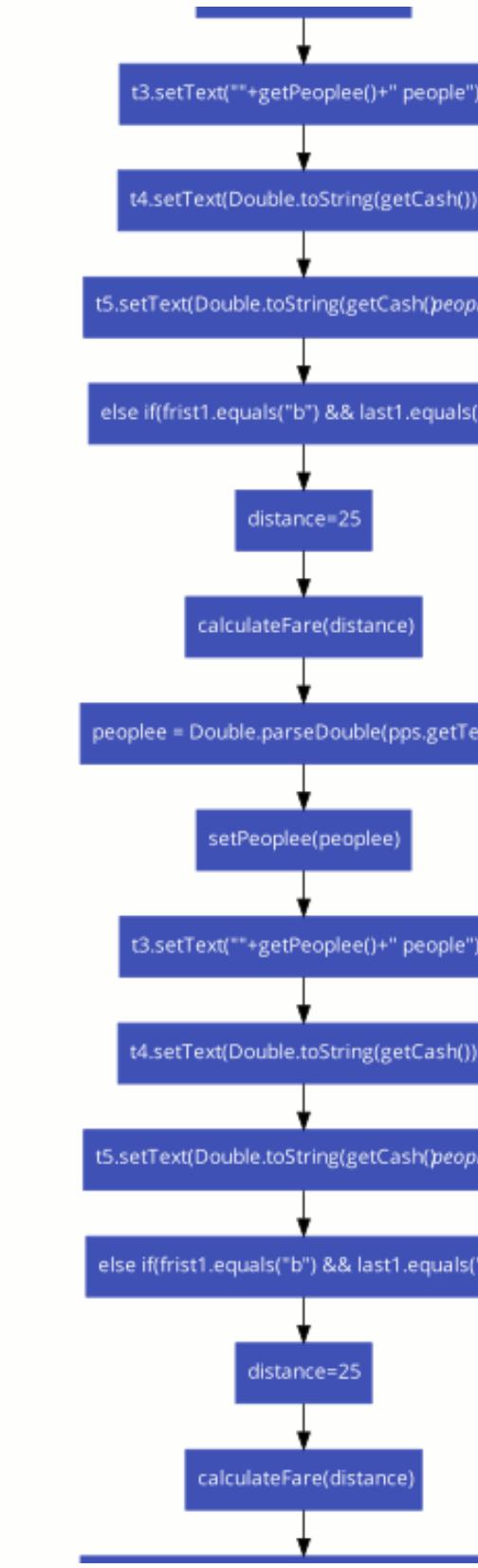
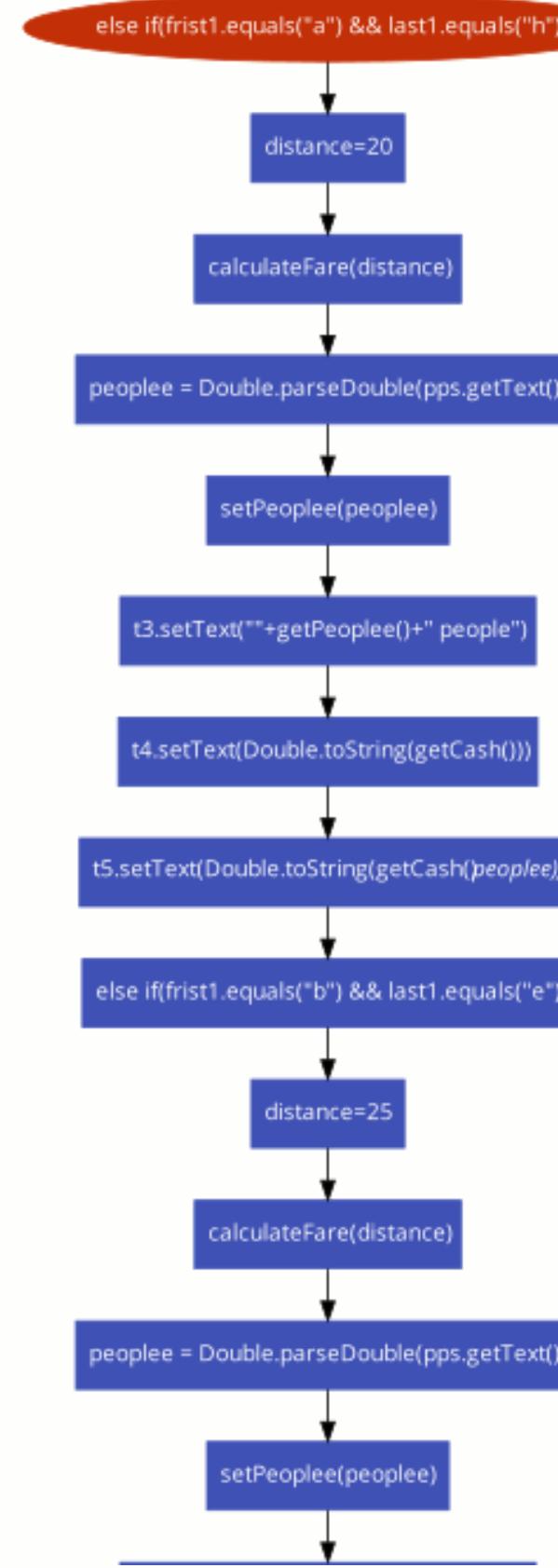
# ALGORITHM AIRPORT LINK



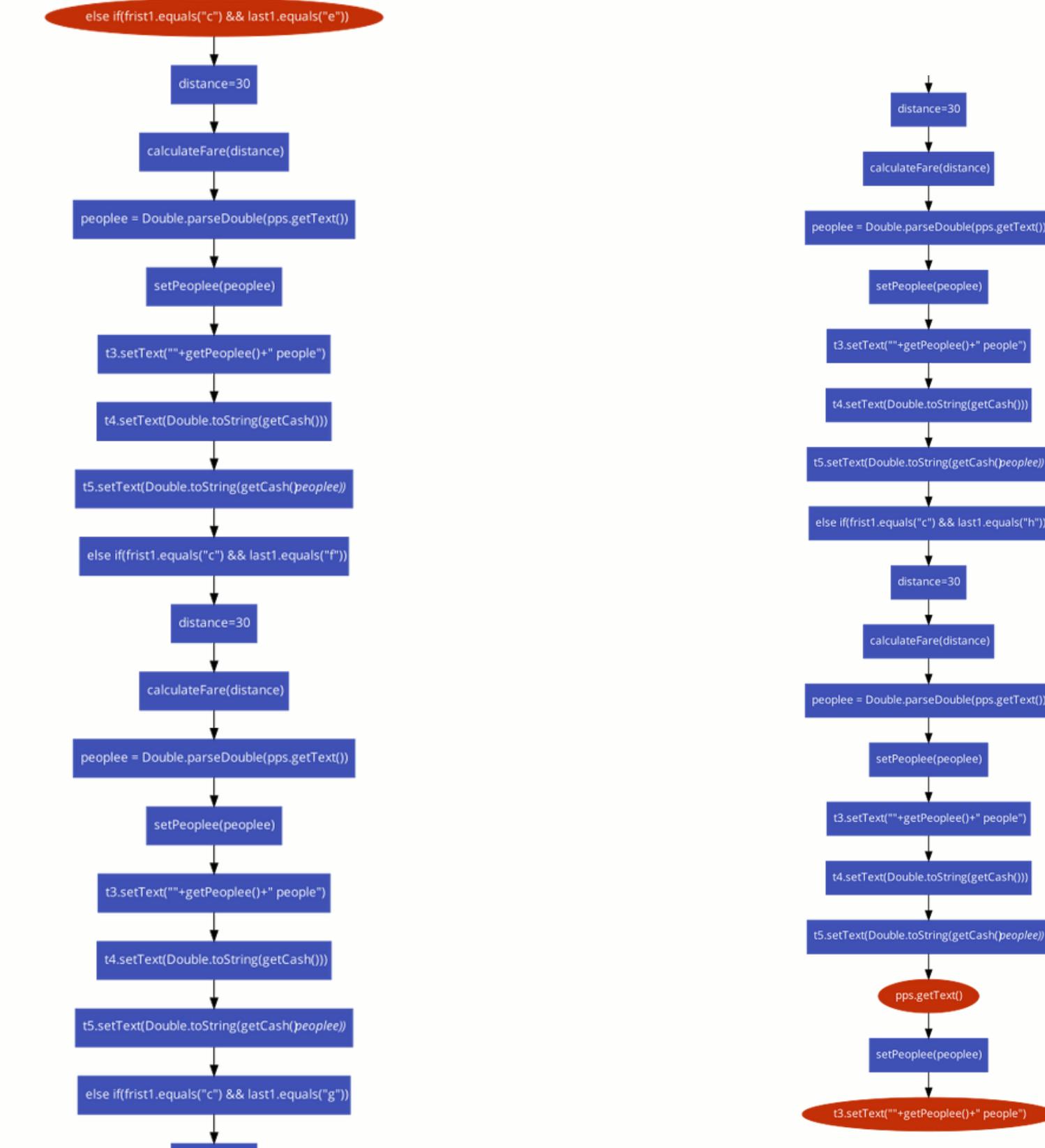
# ALGORITHM AIRPORT LINK



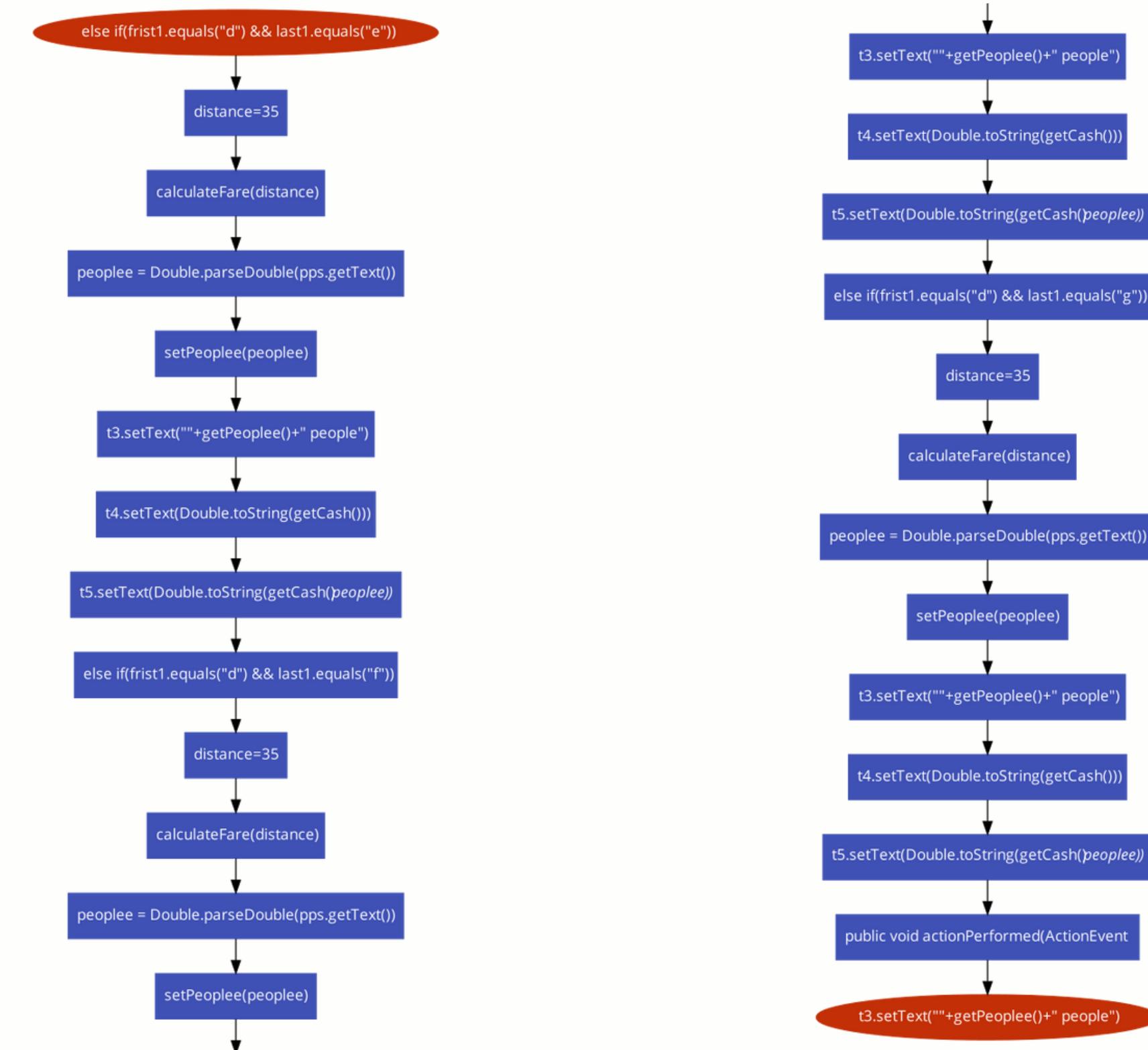
# ALGORITHM AIRPORT LINK



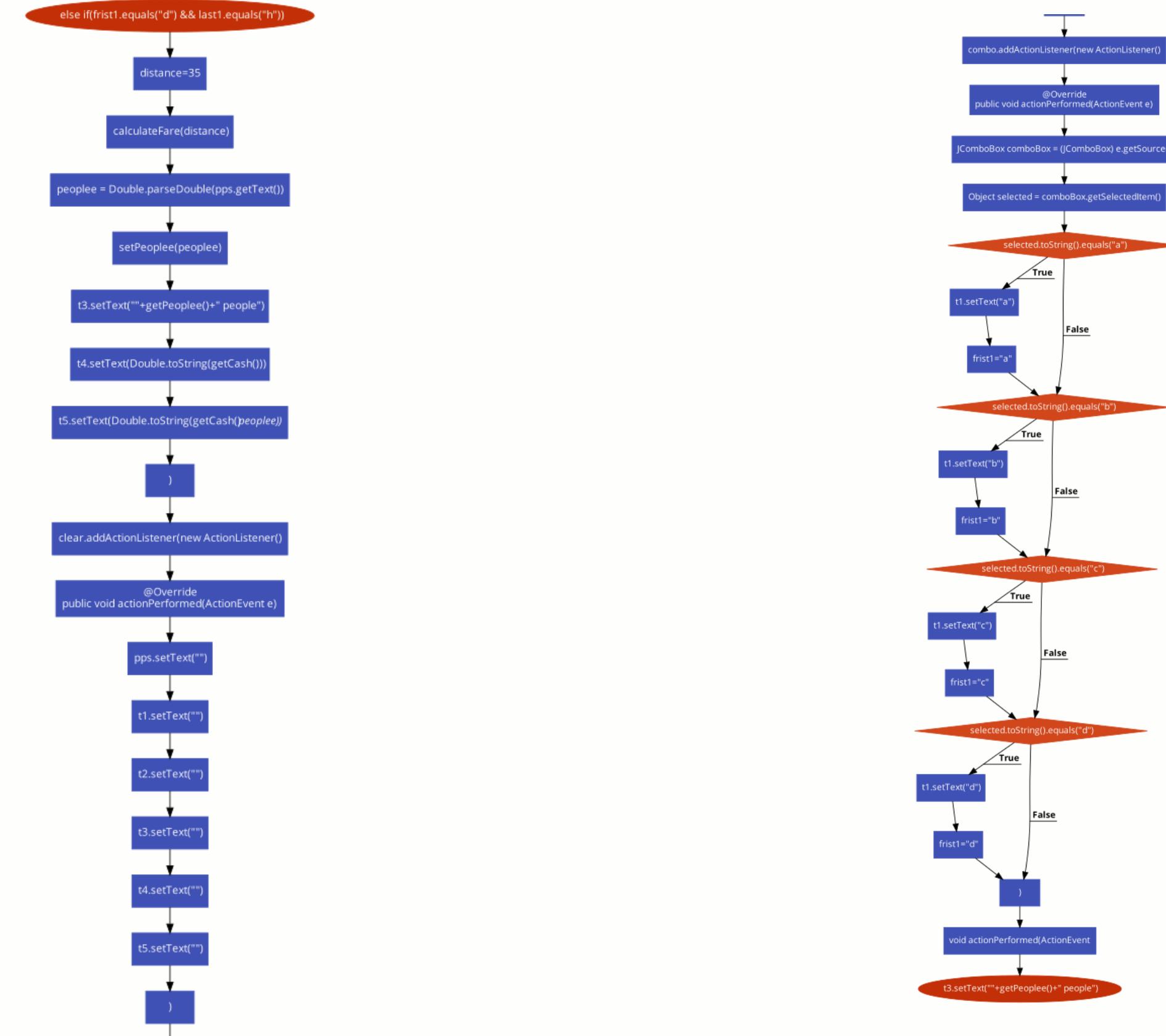
# ALGORITHM AIRPORT LINK



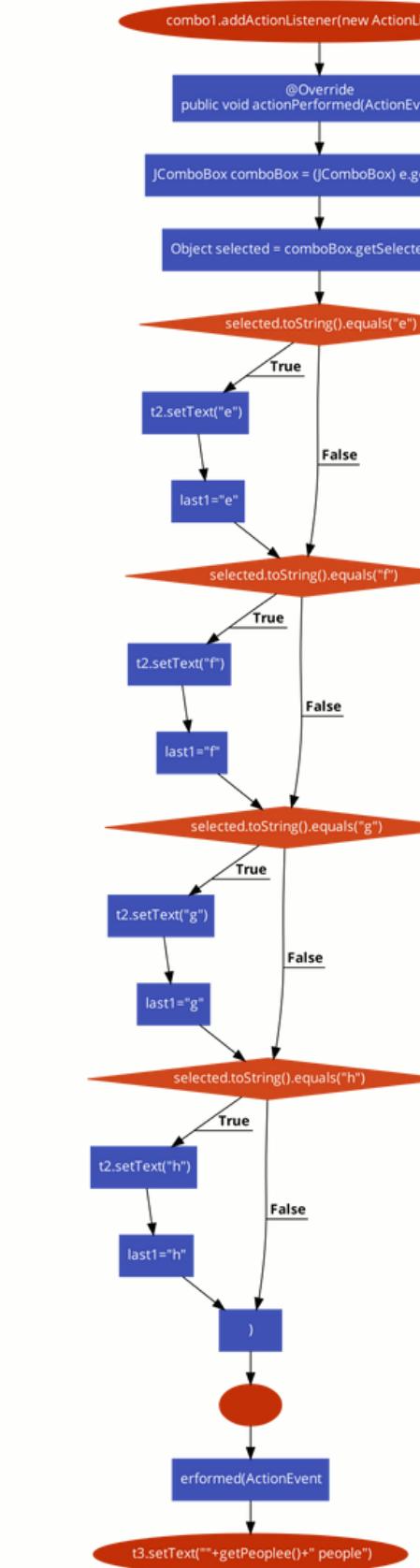
# ALGORITHM AIRPORT LINK



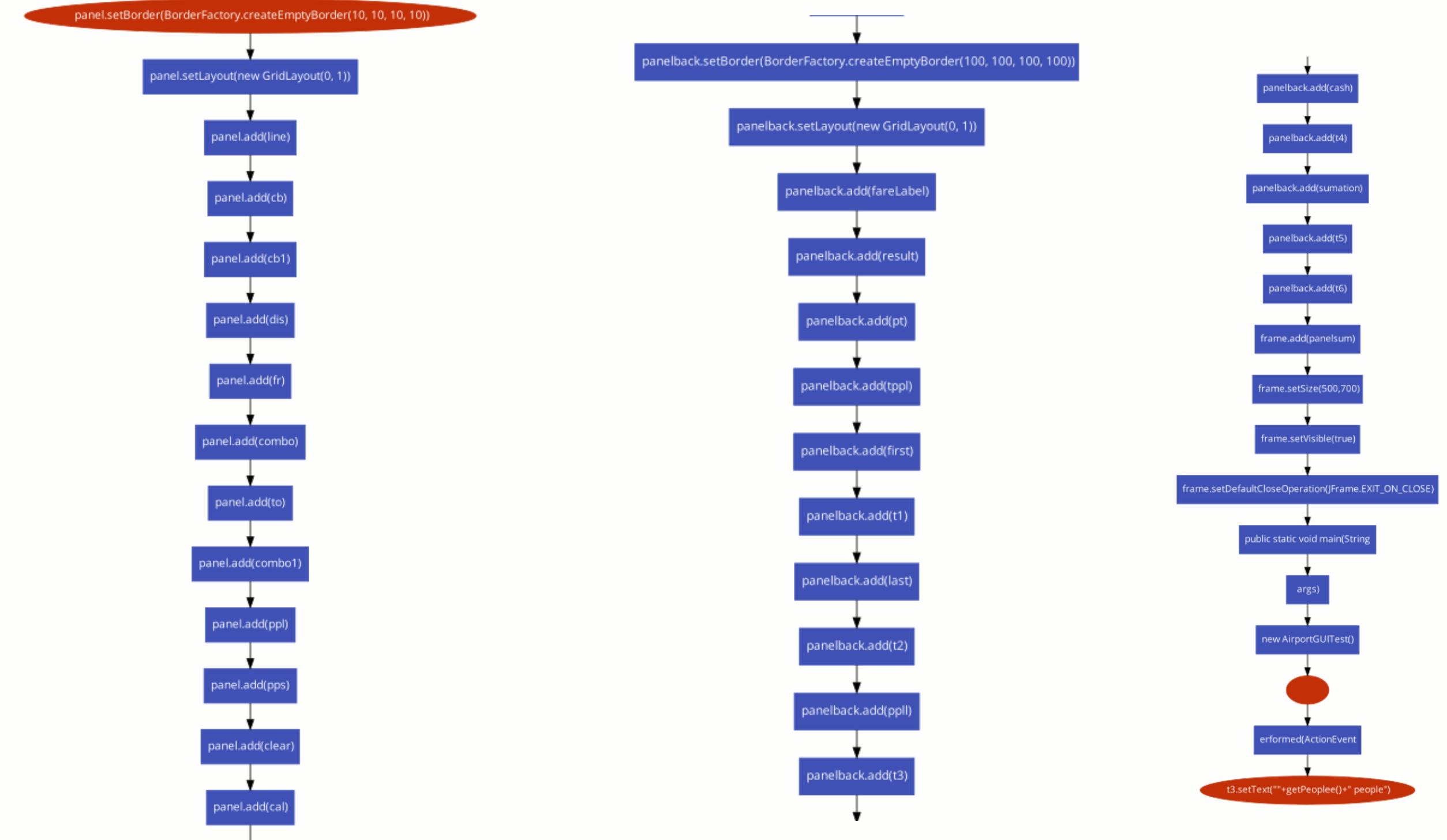
# ALGORITHM AIRPORT LINK



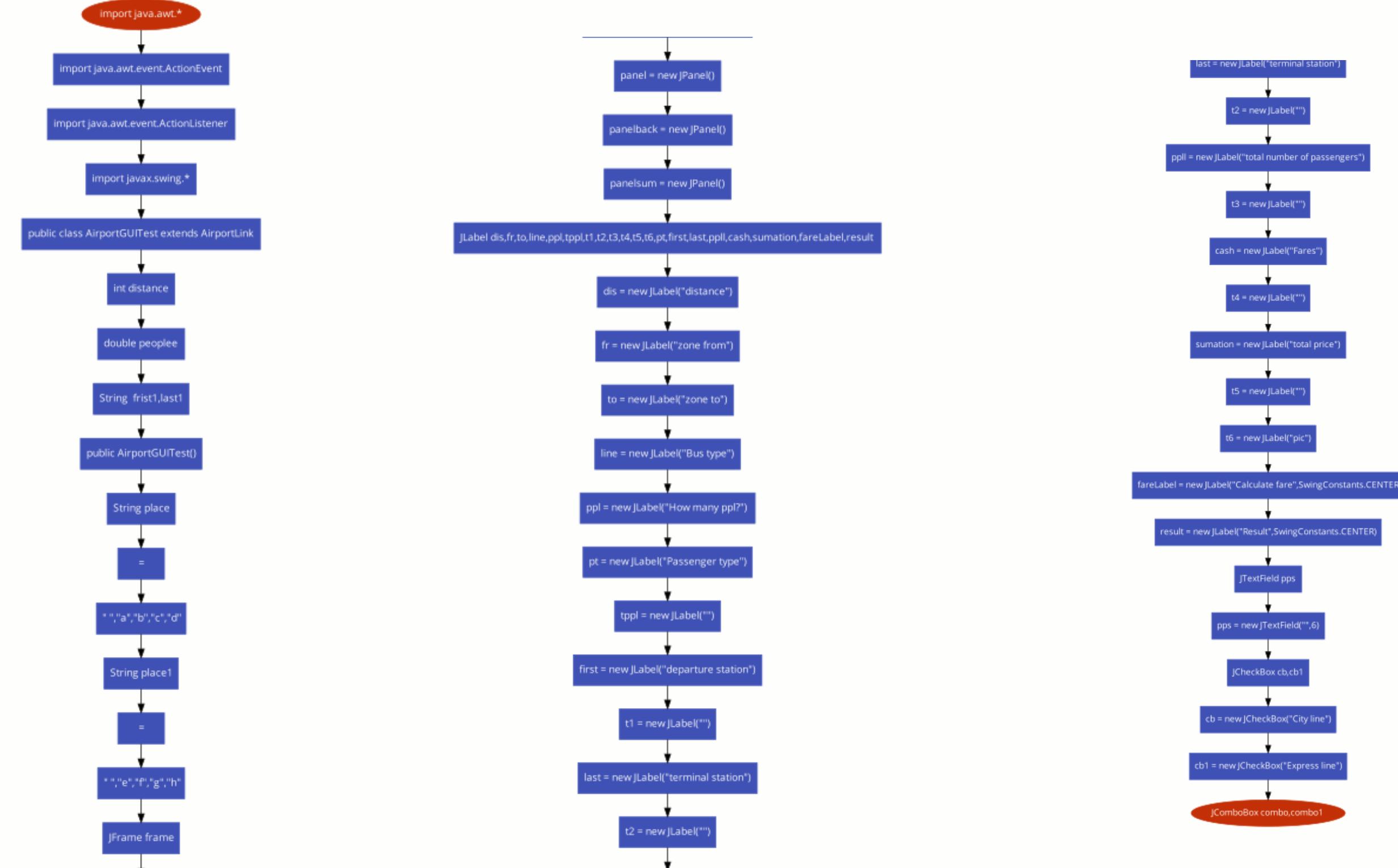
# ALGORITHM AIRPORT LINK



# ALGORITHM AIRPORT LINK



# ALGORITHM AIRPORT LINK



# SOURCE CODE AIRPORTLINK

## class AirportLink

```
public class AirportLink {  
    public int distance;  
    public String name;  
    public int ppl;  
    public double cash;  
    public double peoplee;  
    public double totalprice;  
    public AirportLink() {}  
  
    public void calculateFare(int distance){  
        final double BASE_FARE = 15.0;  
        this.distance=distance;  
        this.cash = distance*BASE_FARE;  
    }  
    public void setPeoplee(Double peoplee){  
        this.peoplee = peoplee;  
    }  
    public double getPeoplee(){  
        return peoplee;  
    }  
    public void setName(String name){  
        this.name = name;  
    }  
    public String getName(){  
        return name;  
    }  
    public void setPpl(int ppl){  
        this.ppl = ppl;  
    }  
    public int getPpl(){  
        return ppl;  
    }  
}  
}  
  
public void setCash(int cash){  
    this.cash = cash;  
}  
  
public double getCash(){  
    return cash;  
}  
public void setdistance(int distance){  
    this.distance = distance;  
}  
public int getdistance(){  
    return distance;  
}  
public double gettotalprice(){  
    return this.totalprice;  
}
```

# SOURCE CODE AIRPORTLINK

## class AirportLinkGUITest

```
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.*;
public class AirportGUITest extends AirportLink{
    int distance;
    double peoplee;
    String frist1,last1;
    public AirportGUITest() {
        String place[] = {" ","a","b","c","d"};
        String place1[] = {" ","e","f","g","h"};
        JFrame frame;
        frame = new JFrame();
        JPanel panel,panelback,panelsum;
        panel = new JPanel();
        panelback = new JPanel();
        panelsum = new JPanel();
        JLabel dis,fr,to,line,ppl,tppl,t1,t2,t3,t4,t5,t6,pt,first,last,ppl1,cash,sumation,fareLabel,result;
        dis = new JLabel(text:"distance");
        fr = new JLabel(text:"zone from");
        to = new JLabel(text:"zone to");
        line = new JLabel(text:"Bus type");
        ppl = new JLabel(text:"How many ppl?");
        pt = new JLabel(text:"Passenger type");
        tppl = new JLabel(text:"");
        first = new JLabel(text:"departure station");
        t1 = new JLabel(text:"");
        last = new JLabel(text:"terminal station");
        t2 = new JLabel(text:"");
        ppl1 = new JLabel(text:"total number of passengers");
        t3 = new JLabel(text:"");
        cash = new JLabel(text:"Fares");
        t4 = new JLabel(text:"");
        sumation = new JLabel(text:"total price");
        t5 = new JLabel(text:"");
```

```
t5 = new JLabel(text:"");
t6 = new JLabel(text:"pic");
fareLabel = new JLabel(text:"Calculate fare",SwingConstants.CENTER);
result = new JLabel(text:"Result",SwingConstants.CENTER);
JTextField pps;
pps = new JTextField(text:"",columns:6);
JCheckBox cb,cb1;
cb = new JCheckBox(text:"City line");
cb1 = new JCheckBox(text:"Express line");
JComboBox combo,combo1;
combo = new JComboBox<>(place);
combo.setSelectedItem(anObject:" ");
combo.setMaximumRowCount(count:6);
combo1 = new JComboBox<>(place1);
combo1.setSelectedItem(anObject:" ");
combo1.setMaximumRowCount(count:6);
JButton clear,cal;
clear = new JButton(text:"Clear");
cal = new JButton(text:"Calculate");
Font font,font1;
font = new Font(name:"TH SarabunPSK", Font.BOLD, size:40);
font1 = new Font(name:"TH SarabunPSK", Font.BOLD, size:20);
line.setFont(font);
dis.setFont(font);
ppl.setFont(font);
fareLabel.setFont(font);
result.setFont(font1);
CardLayout cl;
cl = new CardLayout();
panelsum.setLayout(cl);
panelsum.add(panel,constraints:"1");
panelsum.add(panelback,constraints:"2");
```

# SOURCE CODE AIRPORTLINK

## class AirportLinkGUITest

```
cb.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        String msg = "";
        if(cb.isSelected()){
            msg = "City line";
            tppl.setText(msg);
        }
    }
});
cb1.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        String msg = "";
        if(cb1.isSelected()){
            msg = "Express line";
            tppl.setText(msg);
        }
    }
});
```



# SOURCE CODE AIRPORTLINK

## class AirportLinkGUITest

```
clear.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        pps.setText(t:"");
        t1.setText(text:"");
        t2.setText(text:"");
        t3.setText(text:"");
        t4.setText(text:"");
        t5.setText(text:"");
    }
});
combo.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        JComboBox comboBox = (JComboBox) e.getSource();
        Object selected = comboBox.getSelectedItem();
        if(selected.toString().equals(anObject:"a"))
        {
            t1.setText(text:"a");
            frist1="a";
        }
        if(selected.toString().equals(anObject:"b"))
        {
            t1.setText(text:"b");
            frist1="b";
        }
        if(selected.toString().equals(anObject:"c"))
        {
            t1.setText(text:"c");
            frist1="c";
        }
        if(selected.toString().equals(anObject:"d"))
        {
            t1.setText(text:"d");
            frist1="d";
        }
    }
});
```

```
clear.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        pps.setText(t:"");
        t1.setText(text:"");
        t2.setText(text:"");
        t3.setText(text:"");
        t4.setText(text:"");
        t5.setText(text:"");
    }
});
combo.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        JComboBox comboBox = (JComboBox) e.getSource();
        Object selected = comboBox.getSelectedItem();
        if(selected.toString().equals(anObject:"a"))
        {
            t1.setText(text:"a");
            frist1="a";
        }
        if(selected.toString().equals(anObject:"b"))
        {
            t1.setText(text:"b");
            frist1="b";
        }
        if(selected.toString().equals(anObject:"c"))
        {
            t1.setText(text:"c");
            frist1="c";
        }
        if(selected.toString().equals(anObject:"d"))
        {
            t1.setText(text:"d");
            frist1="d";
        }
    }
});
```

```
combo1.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        JComboBox comboBox = (JComboBox) e.getSource();
        Object selected = comboBox.getSelectedItem();
        if(selected.toString().equals(anObject:"e"))
        {
            t2.setText(text:"e");
            last1="e";
        }
        if(selected.toString().equals(anObject:"f"))
        {
            t2.setText(text:"f");
            last1="f";
        }
        if(selected.toString().equals(anObject:"g"))
        {
            t2.setText(text:"g");
            last1="g";
        }
        if(selected.toString().equals(anObject:"h"))
        {
            t2.setText(text:"h");
            last1="h";
        }
    }
});
```

# SOURCE CODE AIRPORTLINK

## class AirportLinkGUITest

```
panel.setBorder(BorderFactory.createEmptyBorder(top:10, left:10, bottom:10, right:10));
panel.setLayout(new GridLayout(rows:0, cols:1));
panel.add(line);
panel.add(cb);
panel.add(cb1);
panel.add(dis);
panel.add(fr);
panel.add(combo);
panel.add(to);
panel.add(combo1);
panel.add(ppl);
panel.add(pps);
panel.add(clear);
panel.add(cal);
panelback.setBorder(BorderFactory.createEmptyBorder(top:100, left:100, bottom:100, right:100));
panelback.setLayout(new GridLayout(rows:0, cols:1));
panelback.add(fareLabel);
panelback.add(result);
panelback.add(pt);
panelback.add(tppl);
panelback.add(first);
panelback.add(t1);
panelback.add(last);
panelback.add(t2);
panelback.add(pp1);
panelback.add(t3);
panelback.add(cash);
panelback.add(t4);
panelback.add(sumation);
panelback.add(t5);
panelback.add(t6);
frame.add(panelsum);
frame.setSize(width:500,height:700);
frame.setVisible(b:true);
frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}
Run | Debug
public static void main(String[] args) {
    new AirportGUITest();
}
```

GITHUB :

<https://github.com/SiriwimonST/AirportLink.git>

YOUTUBE:

<https://youtu.be/vQlc当地FD-SQ>