```
// Uppgift 1
Kompileringsfel: Uttrycket (t.charAt(i) >= '0' && <= '9') är felaktigt, skall skrivas (t.charAt(i) >= '0' && t.charAt(i) <= '9')
Logiskt fel:
  Programmet visar en dialogruta för varje korrekt tecken samt för det första
fel akťi ga.
  Förslag till rättelse:
  public static void main (String[] arg) {
    String t = JOpti onPane. showI nputDi al og("Ett tal?");
                             // korrekt, än så länge
    boolean ok = true;
    break;
       (ok)
       JOpti onPane. showMessageDi al og(null, "Tal et är OK");
       JOptionPane.showMessageDialog(null, "Inget tal");
    System. exit(0);
  }
Exekveringsfel: Indexering sker från 0, vilket betyder att uttrycken i
for-satsen är fleaktiga
Skall
                         vara:
                  for (int i=0; i<t.length(); i++)
// Uppgift 2
public class Era {
  public static void main(String[] arg) {
    final int max = 1001;
    bool ean[] a = new bool ean[max];
a[0] = a[1] = false;
    for (int k=2; k<max; k++)
      a[k] = true;
    for (int i=2; i<max; i++) if (a[i])
         for (int j = i + 1; j
if (j % i == 0)
a[j] = false;
                           j <max; j ++)
    for (int I=0; I<max; I++) if (a[I])
         System. out. println(I);
}
// Uppgift 3
 import javax.swing.*;
import java.awt.*;
 import java.awt.event.*;
 public class MyTimer extends CircleDiagram implements ActionListener {
   private javax. swing. Timer t = new javax. swing. Timer(1000, this);
   private int max;
   public MyTimer(int maxtime) {
     super(O, maxtime);
     max = maxtime;
   }
```

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public MyTimer() {
     this(3600);
   public void clear() {
     t.stop()
     setValue(0);
     setForeground(Col or. bl ack);
   public void start(int time) {
     clear();
     setValue(time);
     t.restart();
   public void actionPerformed(ActionEvent e) {
     setVal ue(getVal ue()-1);
i f (getVal ue() == 0) {
        t.stop();
       setForeground(Col or. red);
        setValue(max)
        Tool ki t. getDefaul tTool ki t(). beep();
   }
}
// Uppgift 4
public class BoxPanel extends JPanel {
    private int delta;
    public BoxPanel(int d) {
         delta = d;
    public void drawSquares(Graphics g, int x, int y, int w, int h) {
         if (w > 0 \& h > 0) {
             g.drawRect(x, ý, w, h);
drawSquares(g, x+delta, y+delta, w-2*delta, h-2*delta);
         }
    }
    public void paintComponent(Graphics g) {
         super. pai ntComponent(g)
         drawSquares(g, del ta, del ta, getWidth()-2*del ta, getHeight()-2*del ta);
}
// Uppgift 5
 import java.text.*;
 public class Flight implements Comparable<Flight> {
    . . .
    public int compareTo(Flight f) {
     int i = dep.compareTo(f.dep);
if (i != 0)
        return i;
     else {
       Collator c = Collator.getInstance();
       c. setStrength(Collator.PRIMARY);
                                         Page 2
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       return c.compare(destination, f.destination);
   }
 }
// b
   public boolean equals(Object obj) {
     if (obj instanceof Flight) {
       Flight f = (Flight)_obj
       return this.compareTo(f) == 0;
     el se
       return false;
// c
import java.util.*;
public class Airport {
  private String name:
  private SortedSet<Flight> departures = new TreeSet<Flight>();
  private Map<String, SortedSet<Flight>> flightsTo = new HashMap<String,
SortedSet<Flight>>();
  public Airport(String n) {
    name = n;
  public String getName() {
    return name;
  public SortedSet<Flight> getDepartures() {
    return departures;
  public SortedSet<Flight> getDepartures(String to) {
    return flightsTo.get(to);
  public void addFlight(Flight f) {
    departures. add(f);
    if (!flightsTo.containsKey(f.getDestination()))
     flightsTo.put(f.getDestination(), new TreeSet<Flight>());
    flightsTo.get(f.getDestination()).add(f);
  public void removeFlight(Flight f) {
    departures.remove(f);
     SortedSet<Flight> e = flightsTo.get(f.getDestination());
     if (e != null)
       e.remove(f);
       if (e.isEmpty())
          flightsTo.remove(f.getDestination());
}
// d
import javax.swing.*;
import java.io.*;
import java.util.*;
import static javax.swing.JOptionPane.*;
public class CreateFlights {
```

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