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**Listing 10.1**

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```
    ...

    private static boolean isValidKey(String name, String key) {
        if (name!=null && key!=null && name.length()>0)
        {
            String validKey = "";
            for(int i=name.length()-1; i>=-1 ;i--) {
                validKey += name.charAt(i);
            }
            return key.equals(validKey);
        }
        else {
            return false;
        }
    }
}
```

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**Listing 10.2**

---

```
    ...

    public static void main(String args[]) {
        boolean registered = false;

        String name = "World";
        if (registered) {
            BufferedReader in = null;
            try{
                String dataFile = "settings.hwd";
                if (args.length>0 && args[0].length()>0) {
                    dataFile = args[0];
                }
                in = new BufferedReader(new FileReader(new File(dataFile)));
                name = in.readLine();
                in.close();
            } catch (Exception e) {};
        }
        HelloWorld hello = new HelloWorld();

        ...
    }
}
```

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**Listing 10.3**

---

```
    ...

    public static void main(String args[]) {
        Boolean registered = false;

        String regName = "";
        String key = "";
        regName = (String)JOptionPane.showInputDialog(
            null,
            "Enter Registration Name for full functionality.",
            "Trial Version", JOptionPane.PLAIN_MESSAGE,
            null, null, null);

        if (regName!=null && regName.length()>0){
            key = (String)JOptionPane.showInputDialog(
                null,
```

```

        "Enter the Unlock Key for full functionality.",
        "Trial Version", JOptionPane.PLAIN_MESSAGE,
        null, null, null);
    }

    if (isValidKey(regName, key)) {
        registered=true;
    }

    String name = "World";
    if (registered) {
        BufferedReader in = null;
        try{
            String dataFile = "settings.hwd";

            ...

```

---

Listing 10.4

---

```

        ...

    public static void main(String args[]) {
        Boolean registered = false;

        String regName="";
        String key="";
        String iniFileName = System.getenv("ALLUSERSPROFILE")
            + "\\MySoftware\\HelloWorld\\HelloWorld.ini";
        try{
            BufferedReader in = new BufferedReader(new FileReader(
                new File(iniFileName)));
            regName = in.readLine();
            key = in.readLine();
            in.close();
        } catch (Exception e) {}

        registered = isValidKey(regName, key);

        if (!registered) {
            regName = (String)JOptionPane.showInputDialog(
                null,
                "Enter Registration Name for full functionality.",
                "Trial Version", JOptionPane.PLAIN_MESSAGE,
                null, null, null);

            if (regName!=null && regName.length()>0){
                key = (String)JOptionPane.showInputDialog(
                    null,
                    "Enter the Unlock Key for full functionality.",
                    "Trial Version", JOptionPane.PLAIN_MESSAGE,
                    null, null, null);
            }
            if (isValidKey(regName, key)) {
                registered=true;
                try {
                    BufferedWriter out = new BufferedWriter(new FileWriter(
                        new File(iniFileName)));
                    out.write(regName);
                    out.newLine();
                    out.write(key);

```

```

        out.close();
    }
    catch (Exception e) {}
}

String name = "World";

...

```

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#### Listing 10.5

---

```

...

private static final long serialVersionUID = -1480071580639158577L;
private static final long MILLISECONDS_IN_A_DAY = 86400000;
private static final int DAYS_OF_TRIAL = 30;

public static void main(String args[]) {
    ...

```

---

#### Listing 10.6

---

```

...

if (!registered) {

    Preferences prefs = Preferences.systemRoot()
        .node("com/mydomain/helloworld/date");
    String installDateStr = prefs.get("", "");
    long days = DAYS_OF_TRIAL;
    if (installDateStr.length() > 0) {
        Calendar installDate = Calendar.getInstance();
        installDate.set(
            new Integer(installDateStr.substring(0,4)).intValue(),
            new Integer(installDateStr.substring(5,7)).intValue() - 1,
            new Integer(installDateStr.substring(8,10)).intValue(),
            new Integer(installDateStr.substring(11,13)).intValue(),
            new Integer(installDateStr.substring(14,16)).intValue(),
            new Integer(installDateStr.substring(17)).intValue());
        days = ((new Date()).getTime() - installDate.getTimeInMillis())
            / MILLISECONDS_IN_A_DAY;
    }
    String msg = "";
    if (days < DAYS_OF_TRIAL) {
        msg = "You have " + (DAYS_OF_TRIAL - days)
            + " days left in your trial period.";
        registered = true;
    }
    else {
        // trial expired, so don't run the program
        msg = "Your trial period has expired";
    }

    regName = (String) JOptionPane.showInputDialog(
        null,
        msg + "\n\n" +
        "Enter Registration Name for full functionality.",
        "Trial Version", JOptionPane.PLAIN_MESSAGE,
        null, null, null);
}

```

...

---

Listing 10.7

---

```
...

if (registered) {
    BufferedReader in = null;
    try{
        String dataFile = "settings.hwd";
        if (args.length>0 && args[0].length()>0) {
            dataFile = args[0];
        }
        in = new BufferedReader(new FileReader(new
            File(dataFile)));
        name = in.readLine();
        in.close();
    } catch (Exception e) {};
    (note: an end bracket } was removed from here)
    HelloWorld hello = new HelloWorld();
    hello.display(name);
    hello.addHelp();
    JFrame frame = new JFrame();
    frame.add(hello);
    URL url = HelloWorld.class.getResource("/smiley.gif");
    if (url!=null) {
        frame.setIconImage(
            Toolkit.getDefaultToolkit().getImage(url));
    }
    frame.setTitle("Hello World");
    frame.setSize(200,100);
    frame.setVisible(true);
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}

...
```

---

Listing 10.8

---

```
...

public void init() {
    boolean registered = false;
    String regName = "";
    String key = "";
    try {
        URL url=new URL (getCodeBase(), "HelloWorld.ini");
        BufferedReader in = new BufferedReader(
            new InputStreamReader(url.openStream()));
        regName = in.readLine();
        key = in.readLine();
        in.close();
    }
    catch (Exception e) {};
    registered = isValidKey(regName, key);

    String name = "World";
    if (registered) {
        String dataFile = "settings.hwd";
        String file = getParameter("File");
        if (file!=null) {
            dataFile = file;
        }
    }
}
```

```
    try{
        URL url=new URL (getCodeBase(), dataFile);
        BufferedReader in = new BufferedReader(
            new InputStreamReader(url.openStream()));
        name = in.readLine();
        in.close();
    }
    catch (Exception e) {;}
}
display(name);
}

    ...
```

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