

```

1 package Supporting;
2
3 public class Exiting
4 {
5     // Suspend current program for a long time
6     public static void longPause( )
7     {
8         try
9         { Thread.sleep( 1000000000 ); }
10        catch( InterruptedException e ) { }
11    }
12 }

```

Figure 3.8 A class `Exiting` with a single static method, which is part of the package `Supporting`

3.5.3 The CLASSPATH Environment Variable

Packages are searched for in locations that are named in the `CLASSPATH` variable. What does this mean? Here are possible settings for `CLASSPATH`, first for a Windows 95 system and second for a Unix system:

```

SET CLASSPATH=.;C:\cafe\java\lib\
setenv CLASSPATH .:$HOME/java:/usr/java/lib

```

In both cases, the `CLASSPATH` variable lists directories (or zipped files) that contain the package's class files. For instance, if your `CLASSPATH` is set incorrectly, you will not be able to compile even the most trivial program because `java.lang` will not be found.

A class in package `P` must be in a directory `P` that will be found by searching through the `CLASSPATH` list. The current directory (directory `.`) is always in the `CLASSPATH` variable, so if you are working from a single main directory, you can simply create subdirectories in it. Most likely, however, you'll want to create a separate Java subdirectory and then create package subdirectories in there. You would then augment the `CLASSPATH` variable to include the Java subdirectory. This was done in the previous Unix declaration when we added `$HOME/java` to the `CLASSPATH`. Inside the `java` directory, you create subdirectories named `Supporting`, `DataStructures`, and `Exceptions`. In the `Supporting` subdirectory, you place the code for the `Exiting` class.

An application can then use the `longPause` method by issuing

```
Exiting.longPause( );
```

if an appropriate `import` directive is provided.

The `CLASSPATH` variable specifies files and directories that should be searched to find classes.

A class in package `P` must be in a directory `P` that will be found by searching through the `CLASSPATH` list.