Details, Details
public class Slideshow
{
    private Picture[] images;
    private Sound[] sounds;

    public Slideshow( Picture[] see, Sound[] hear )
    {
        images = see;
        sounds = hear;
    }

    ...
}
public class Slideshow
{
    private Picture[] images;
    private Sound[] sounds;

    public Slideshow( Picture[] see, Sound[] hear )
    {
        images = see;
        sounds = hear;
    }

    public Slideshow()
    {
        images = new Picture[0];
        sounds = new Sound[0];
    }

    ...
}
... the simplest `show()` method to satisfy the assignment ...

```java
public show()
{
    for ( int i = 0; i < sounds.length; i++ )
    {
        images[i].show();
        sounds[i].blockingPlay();
    }
}
```
public show()
{
    Picture canvas =
        new Picture( getCanvasWidth(), getCanvasHeight() );

    for ( int i = 0; i < sounds.length; i++ )
    {
        canvas.clear();
        canvas.placeInCenter( images[i] );
        canvas.repaint();
        sounds[i].blockingPlay();
    }
}
public static void main( String[] args )
{
    Picture[] images = loadPictures();
    Sound[] sounds = loadSounds();

    Slideshow theShow = new Slideshow( images, sounds );
    theShow.show();
}

public static Picture[] loadPictures()
{
    String[] imageNames = { "wallingf-250x328.jpg", ... ];

    Picture[] images = new Picture[imageNames.length];
    for ( int i = 0; i < imageNames.length; i++ )
    {
        images[i] = new Picture( FileChooser.getMediaPath(imageNames[i]) );
    }

    return images;
}
Fixing a Solution

...to this exercise:

Write a Student method named emailDomain() that returns just the primary domain of the student’s e-mail address.

```java
> Student s = new Student( "810061 04,SCHAFER,J,BEN,123456,schafer@cs.uni.edu" );
> s.emailDomain()
"uni.edu"

> Student t = new Student(  
"810061 04,GUY,MADE,UP,234567,indecipherable.mess@gmail.com" );
> t.emailDomain()
"gmail.com"
```
Reading Objects from a File

Given a file of commas-separated values such as:

Course,Last Name,First Name,Middle Name,UNI ID,e-mail
810061 04,SCHAFER,J,BEN,123456,schafer@cs.uni.edu
810061 04,GUY,MADE,UP,234567,indecipherable.mess@gmail.com

... create an array of Student objects:

```
student[0] = Ben Schafer
student[1] = Made Up Guy
```
try {
    BufferedReader source = new BufferedReader( new FileReader(filename) );
    line = source.readLine();            // ignore the header line

    while ( true )
    {
        line = source.readLine();
        if ( line == null )
            break;

        result[count] = new Student( line );
        count++;
        if ( count >= 50 )                          // added to ensure we do
            break;                                    // not overflow our array

    }

    source.close();
}

} catch (IOException e) {
    System.out.println( "An error occurred reading the file " + filename );
    return null;
}
The university offers each department the chance to contact high school students who have indicated interested in the department.

They send us a big spreadsheet of data...
The Premise ...

... with an e-mail address, if available, in the 12th field.

,"J","Ben","Schafer",
","316 ITTC","Cedar Falls","IA","50614",
"(319)273-2187","muttman@hotmail.com",
"Computer Science 810 (B)",

,"Delbert","T","Quimby",
","307 ITTC","Cedar Falls","IA","50614",
"(319)327-2310","Computer Science 810 (B)",

Notice that a field can be empty.
(What's the String value?)
... The Exercise

We would like to know some information about the e-mail addresses of our prospects.

Write a ProspectReader class that loads an array of e-mail addresses from a CSV prospect file.

public ProspectReader(String filename, int numberOfEntries)
The Rest of the Exercise

Write a method that returns the number of gmail.com addresses in the file.

Even better, let us pass in the domain of interest.
A Little Fun

As you may have guessed from the first midterm, I read the comic FoxTrot.

What if I can't wait for the evening Courier to get my daily fix?

With a little extra Java, I can write a program that downloads FoxTrot for me on demand!