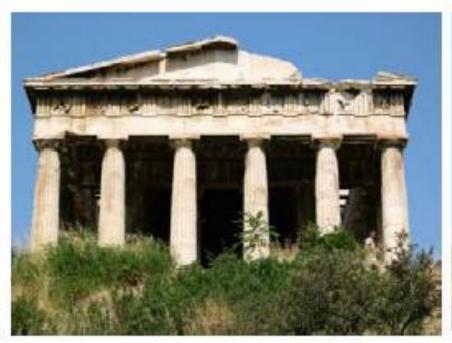
Step Into Java: Mirror Part of Your Pix

Mr. Neat
Java

• Let's fix an ancient Greek ruin (photographically)





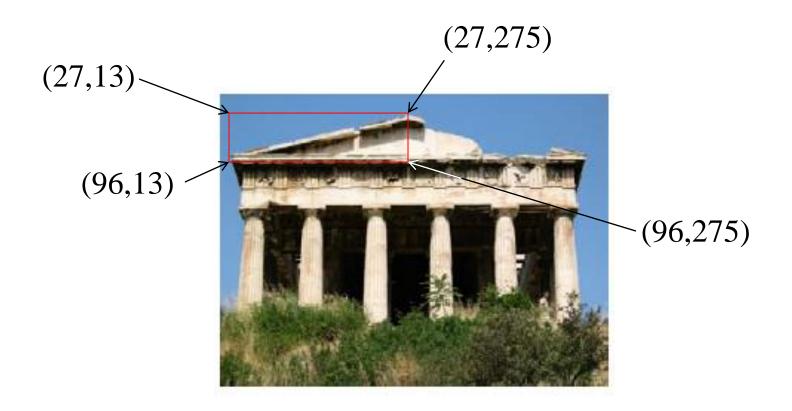
- How?
- Flip horizontal or vertical line?
- Flip left to right or right to left?



- How?
- Where is the mirror point?



- How?
- What are the dimensions of the sub picture to flip?



- How?
- Get the left Pixel
- Get the right Pixel
 - Find left Pixel distance to mirror point
 - Add this distance to mirror point
- Set right Pixel color to left Pixel color





• Let's look at the code...

```
int mirrorPoint = 276;
Pixel leftPixel = null;
Pixel rightPixel = null;
int count = 0;
Pixel[][] pixels = this.getPixels2D();
// loop through the rows
for (int row = 27; row < 97; row++)
  // loop from 13 to just before the mirror point
  for (int col = 13; col < mirrorPoint; col++)</pre>
    leftPixel = pixels[row][col];
    rightPixel = pixels[row]
                      [mirrorPoint - col + mirrorPoint];
    rightPixel.setColor(leftPixel.getColor());
```

Let's look at the code...

```
public void mirrorTemple()
 int mirrorPoint = 276;
 Pixel leftPixel = null;
 Pixel rightPixel = null;
  int count = 0;
 Pixel[][] pixels = this.getPixels2D();
 // loop through the rows
 for (int row = 27; row < 97; row++)
    // loop from 13 to just before the mirror point
    for (int col = 13; col < mirrorPoint; col++)</pre>
      leftPixel = pixels[row][col];
      rightPixel = pixels[row]
                        (mirrorPoint - col) + mirrorPoint];
      rightPixel.setColor(leftPixel.getColor());
```

Lab – Mirror Sub Pix

Write the method mirrorArms to mirror the arms on the snowman ("snowman.jpg") to make a snowman with 4 arms. Write a class (static) test method in PictureTester to test this new method and call it in the main method.