Complete the `SkyView` constructor below.

```
/** Constructs a SkyView object from a 1-dimensional array of scan data.
 *  @param numRows the number of rows represented in the view
 *         Precondition: numRows > 0
 *  @param numCols the number of columns represented in the view
 *         Precondition: numCols > 0
 *  @param scanned the scan data received from the telescope, stored in telescope order
 *         Precondition: scanned.length == numRows * numCols
 *  Postcondition: view has been created as a rectangular 2-dimensional array
 *                 with numRows rows and numCols columns and the values in
 *                 scanned have been copied to view and are ordered as
 *                 in the original rectangular area of sky.
 */
public SkyView(int numRows, int numCols, double[] scanned)
```

Part (b) begins on page 19.

(b) Write the `SkyView` method `getAverage`, which returns the average of the elements of the section of `view` with row indexes from `startRow` through `endRow`, inclusive, and column indexes from `startCol` through `endCol`, inclusive.

For example, if `nightSky` is a `SkyView` object where `view` contains the values shown below, the call `nightSky.getAverage(1, 2, 0, 1)` should return `0.8`. (The average is `(1.1 + 1.4 + 0.2 + 0.5) / 4`, which equals `0.8`). The section being averaged is indicated by the dark outline in the table below.

view	0	1	2
0	0.3	0.7	0.8
1	1.1	1.4	0.4
2	0.2	0.5	0.1
3	0.9	0.6	1.6

Class information repeated from the beginning of the question

```
public class SkyView

private double[][] view
public SkyView(int numRows, int numCols, double[] scanned)
public double getAverage(int startRow, int endRow,
                         int startCol, int endCol)
```

WRITE YOUR SOLUTION ON THE NEXT PAGE.