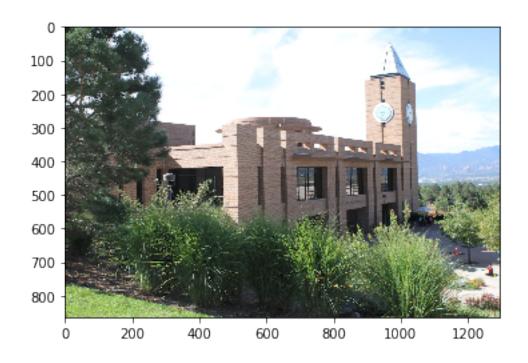
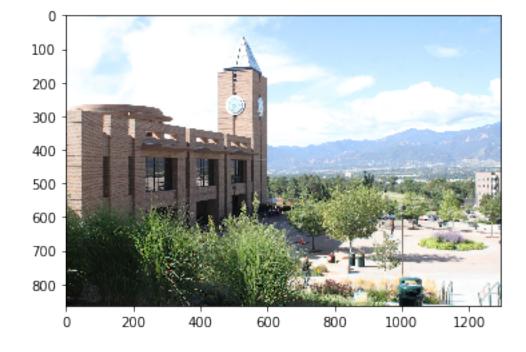
Step 1: Read in images pano1.jpg and pano2.jpg and show them

Leave them as color (three-channel) images.

Note that OpenCV reads images as BGR while Matplotlib wants RGB.





Coordinates for 2D points are given here.

Points in first image:

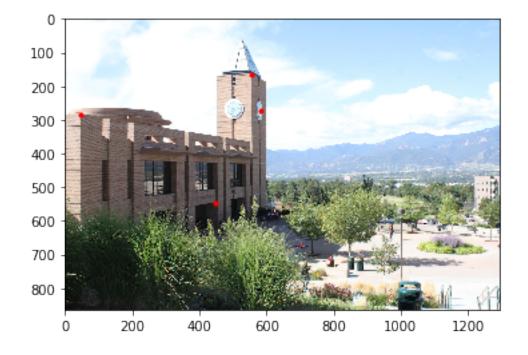
[[512. 997. 1028. 898.] [291. 149. 259. 537.]]

Points in first image:

```
[[ 48. 557. 582. 449.]
[ 284. 164. 274. 545.]]
```

Step 2: Show each image and plot the points on top as red dots.





Step 3: Use the Direct Linear Transform to solve for the 3x3 homography relating the two point sets.

See the accompanying PDF for information on this.

```
[[ 7.56638323e-01 -4.62358888e-04 4.66168156e+02]

[ -9.03489041e-02 8.90745767e-01 3.68833993e+01]

[ -1.86879358e-04 -3.47420198e-05 1.00000000e+00]]
```

Step 4: Calculate the average re-projection error of the estimated homography.

See the accompanying PDF for information on this.

2.20295632394e-11

Step 6: Warp image 2 using the homography and blend the result with image 1.

Use a linear blend with a weight of 0.5 for each image.

