Homework Assignment 03:

1. Give a formula for the number of bytes a raw RGB image of size n x m requires.

2. If an image is of size 500 x 600, how many bytes does the raw RGB image occupy?

3. When we double an image of size n x m, how many bytes the new image will require?

4. When we halve an image of size n x m, how many bytes the new image will require?

5. If we limit each pixel colors from 256 to 16, and therefore use only 4 bits for each color, how many bytes an image of size n x m would require?

6. Explain what the following function does to the n x n size image represented using “im”.

   ```python
   p = cImage.Pixel(0,0,0)
   for i in range(n):
     im.setPixel(i,i,p)
   ```

Homework Assignments are due 5pm on Wednesdays.