Assignment #5

- Implement color histogram equalization
  - Implement histogram equalization by yourself
    - Apply histogram equalization to only the Y channel of the YCbCr color space, then use $I_o^c(x,y) = Y_o(x,y)\left(\frac{I_i^c(x,y)}{Y_i(x,y)}\right)^s$ for color image processing.
      - $I_i^c(x,y)$, $I_o^c(x,y)$: input and output color components, $c \in \{R,G,B\}$
      - $Y_i(x,y)$, $Y_o(x,y)$: luminance values of the input and output images
      - Find your own (optimal) exponent $s < 1.0$ for the best image quality.
  - Submit a single PDF file with code and screenshots.
  - Due: Nov. 24.