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1 Assignment 1

1.1 Negative of an image

```
a=imread('Lenna.png');  
figure  
[row,col,s]=size(a);  
imshow(a);  
for i=1:row  
    for j=1:col  
        for k=1:3  
            a(i,j,k)=255-a(i,j,k);  
        end  
    end  
end  
  
figure  
  
imshow(a);
```



(a) Original Image



(b) Negative Image

Figure 1: a normal and a negative image

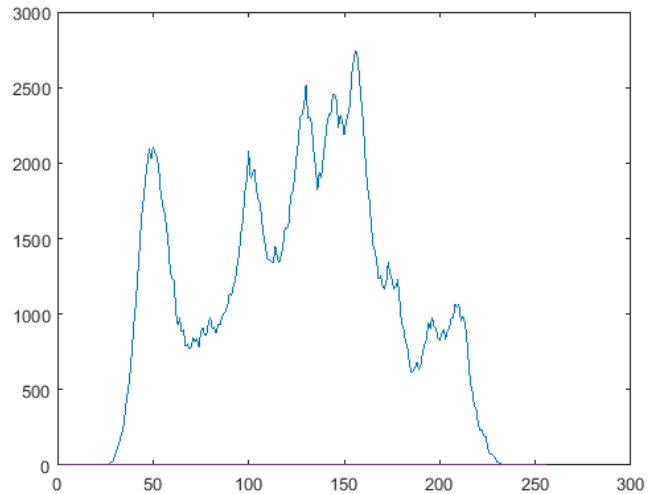
2 Assignment 2

2.1 Plotting the histogram of an image

```
a=imread('Lenna.png');  
b=rgb2gray(a);  
[row,col]=size(b);  
arr=zeros(256);  
for i=1:row  
    for j=1:col  
        arr(b(i,j)+1)= arr(b(i,j)+1)+1;  
    end  
end  
plot(arr);
```



(a) Original Image



(b) Histogram of the Image

Figure 2: Image & histogram of the image

2.2 histogram equalization