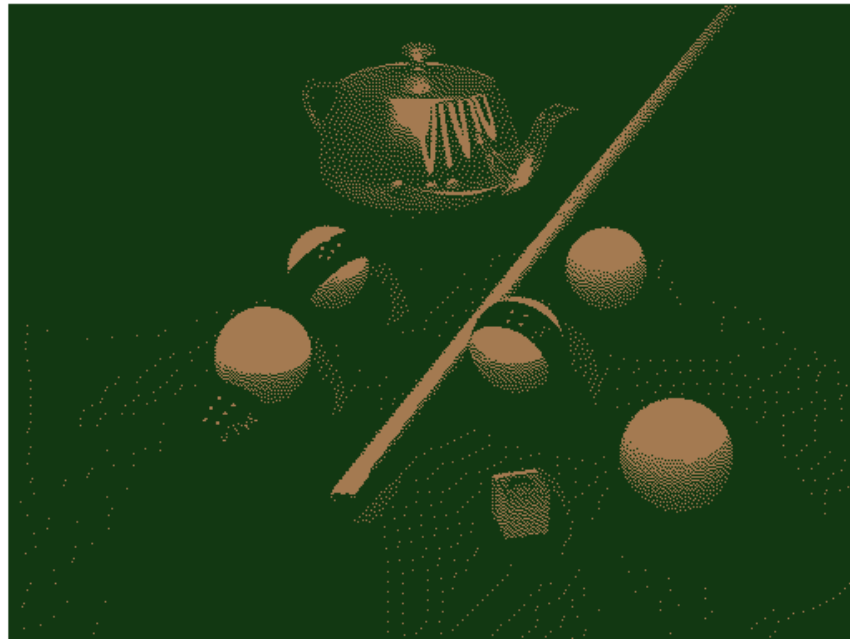
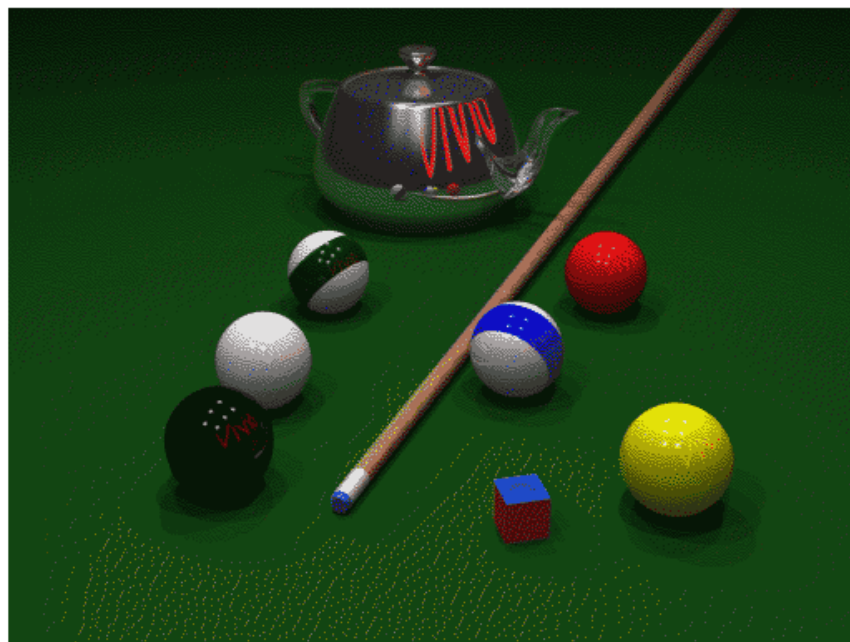

```
clc;
close all;
clear all;

I=imread('pool.png');
for J=2:20:122
    figure;
    [x,map]=rgb2ind(I,J);
    imshow(x,map);
    title(strcat('Indexed image(',int2str(J),' Colors)'));
end
for J=2:20:122
    figure;
    [x,map]=rgb2ind(I,J);
    subplot(2,2,1);
    imshow(x);
    title('Image befor histogram equalization');
    subplot(2,2,2);
    bar(imhist(x),'b');
    title('Original Histogram');
    g=histeq(x);
    subplot(2,2,3);
    imshow(g);
    title('Image after histogram equalization');
    subplot(2,2,4);
    bar(imhist(g),'b');
    title('Equalized Histogram');
end
```

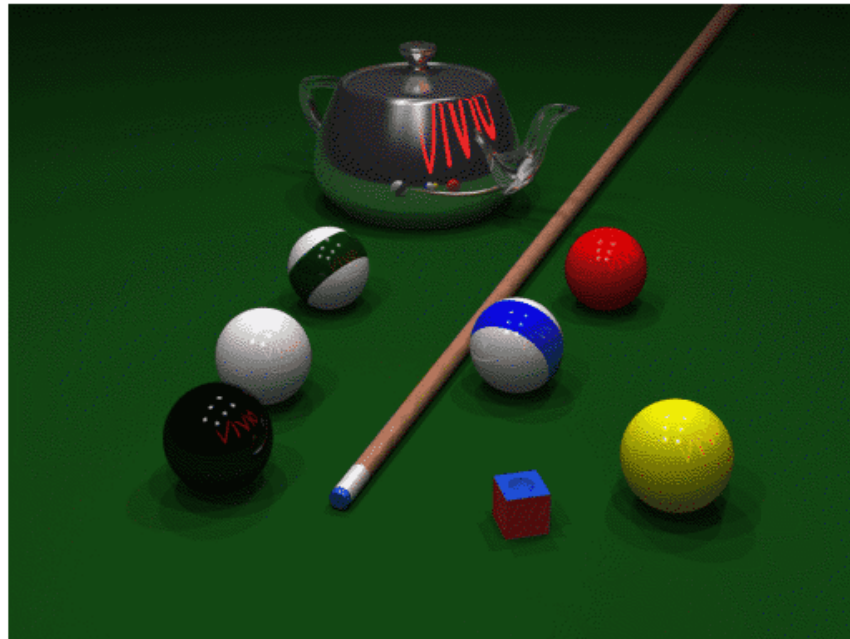
Indexed image(2 Colors)



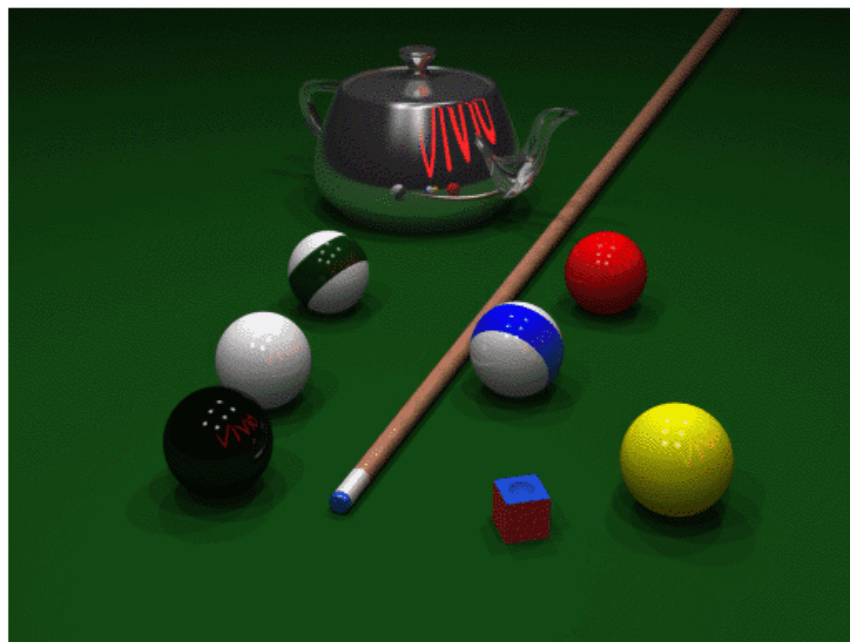
Indexed image(22 Colors)



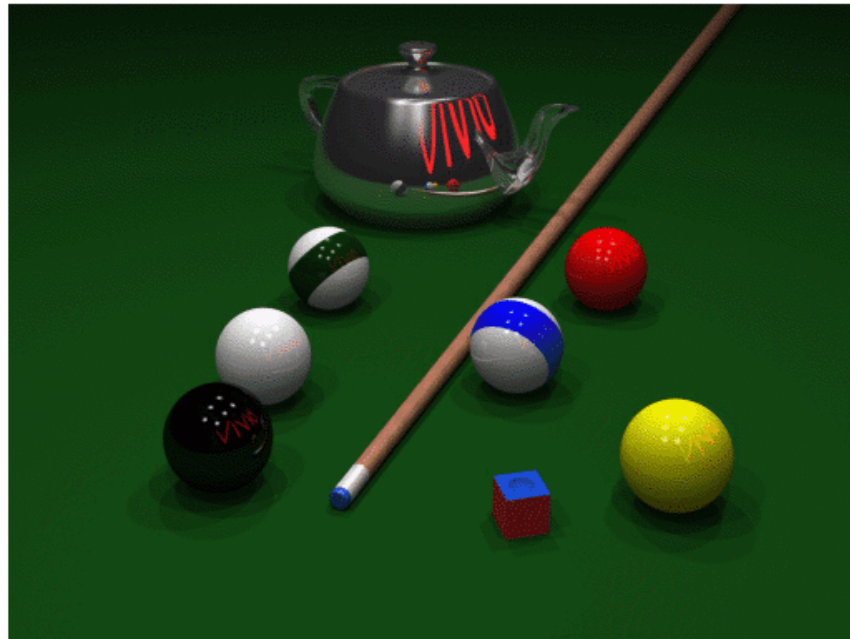
Indexed image(42 Colors)



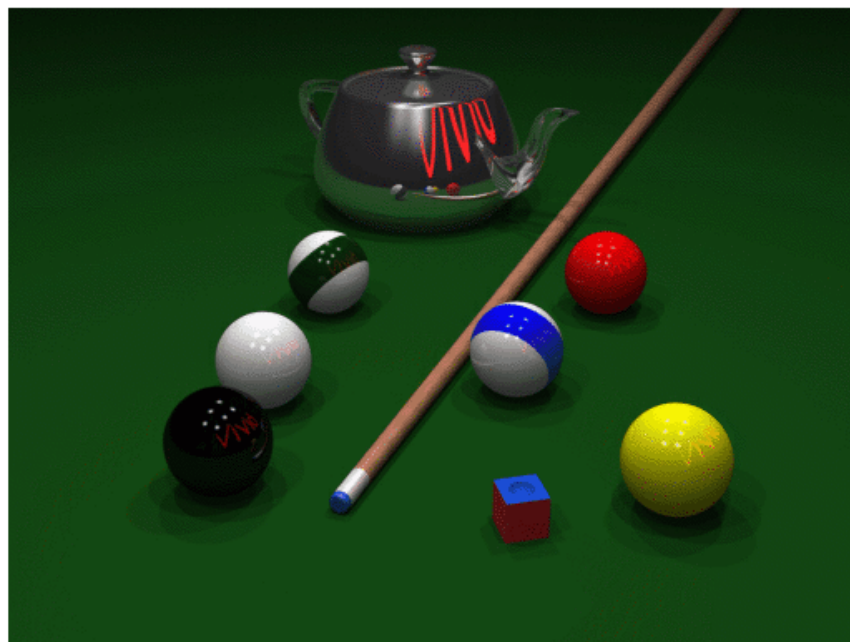
Indexed image(62 Colors)



Indexed image(82 Colors)



Indexed image(102 Colors)



Indexed image(122 Colors)

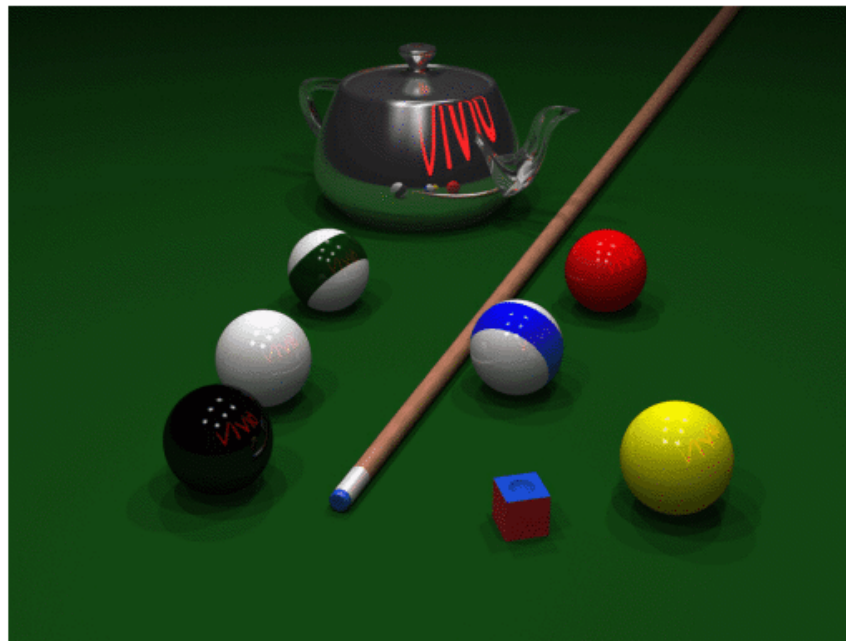


Image before histogram equalization

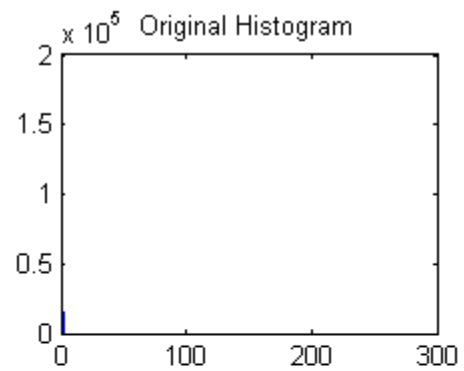


Image after histogram equalization

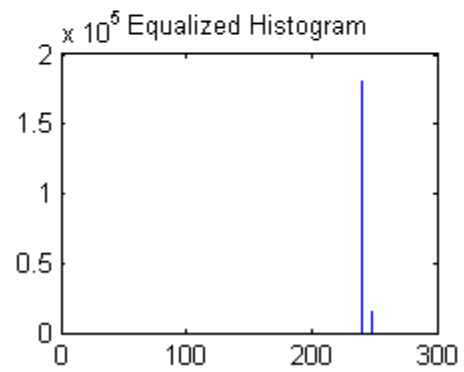


Image before histogram equalization

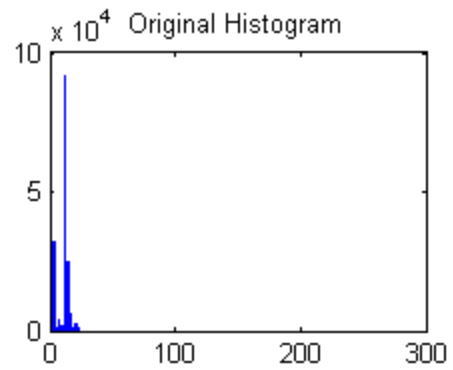


Image after histogram equalization

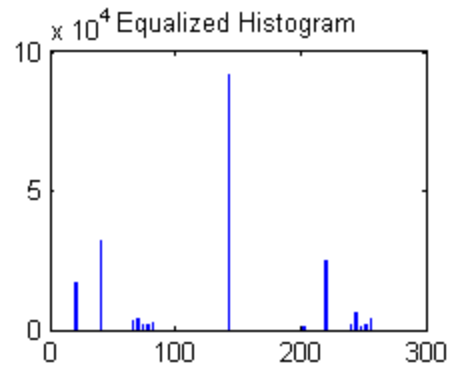
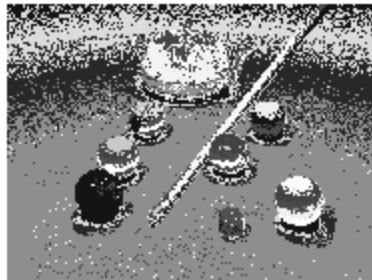


Image before histogram equalization

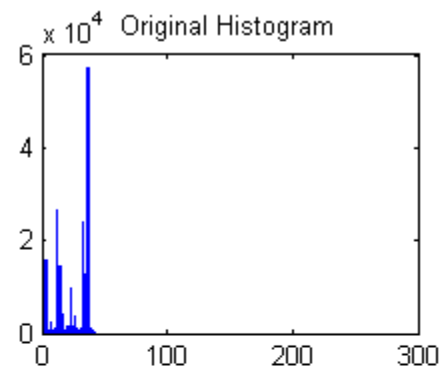


Image after histogram equalization

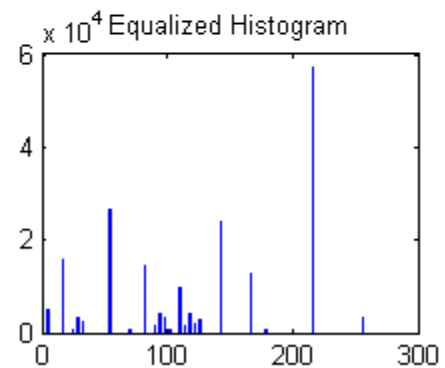


Image before histogram equalization

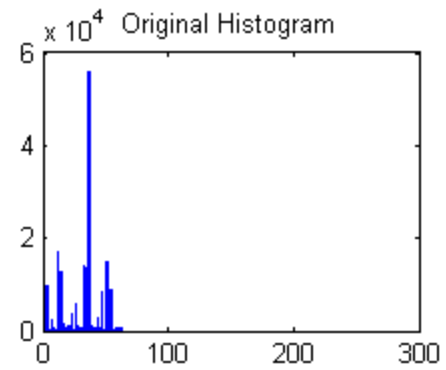
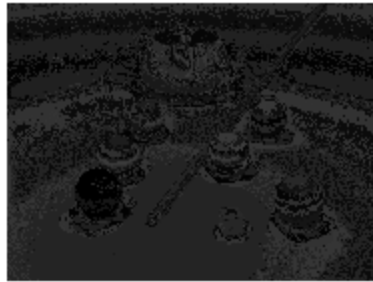


Image after histogram equalization

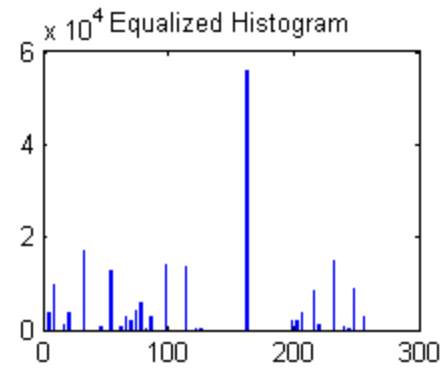


Image before histogram equalization

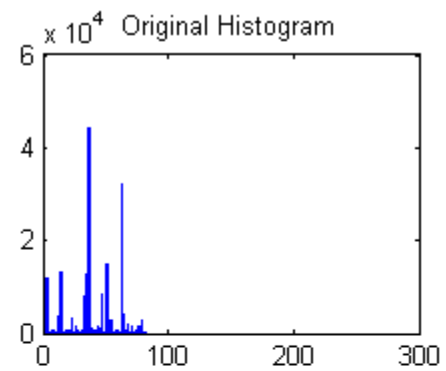
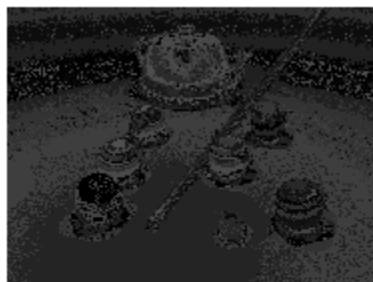


Image after histogram equalization

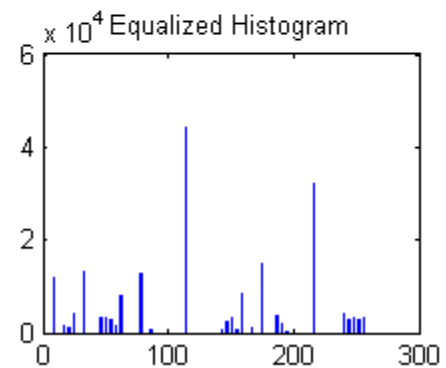
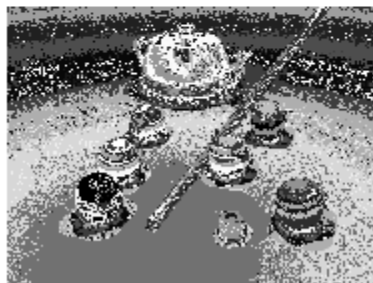


Image before histogram equalization

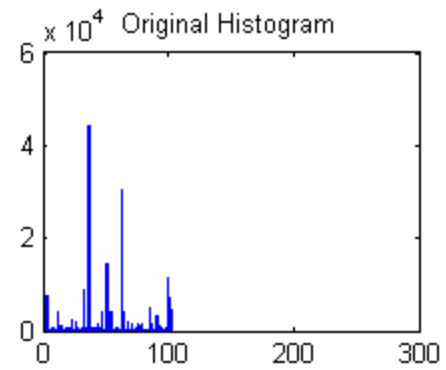
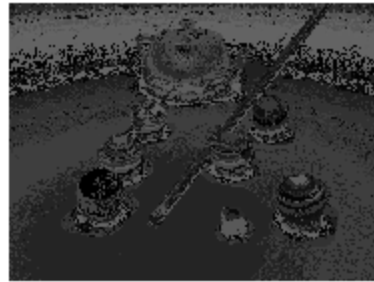


Image after histogram equalization

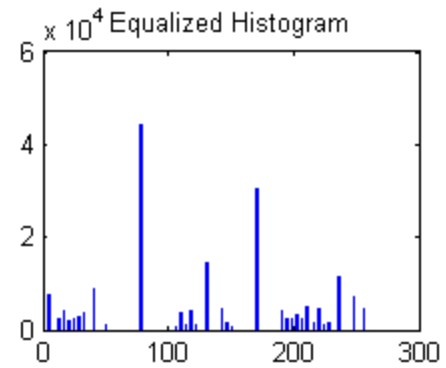
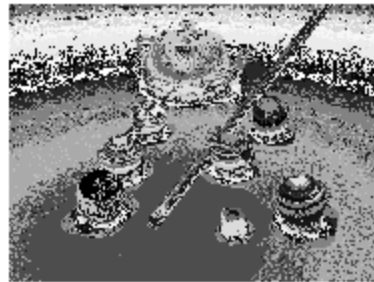


Image before histogram equalization

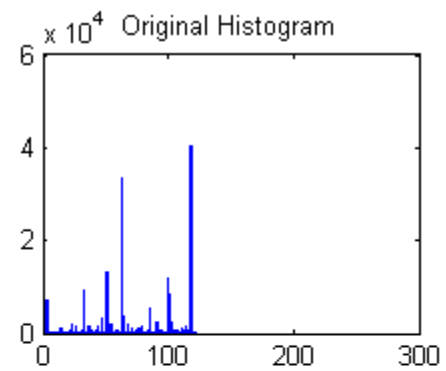
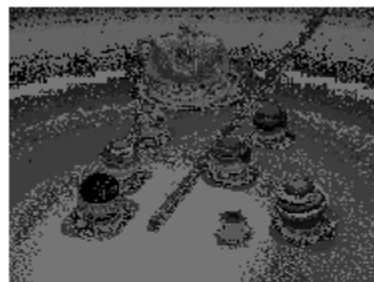
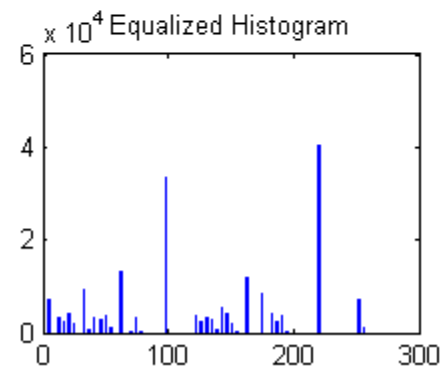
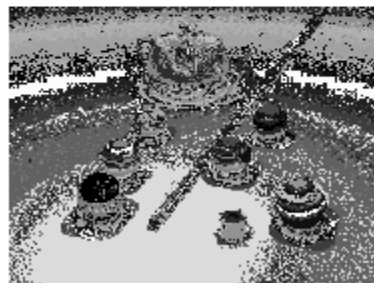


Image after histogram equalization



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