S = [1 2 3 4 5; 6 7 8 9 10; 11 12 13 14 15; 16 17 18 19 20; 21 22 23 24 25];

[row, col] = size(S);

S

R = S;

for i = 1:row-2

for j = 1:col - 2

N = S(i:i+2, j:j+2);

t = max(N(:));

R(i+1, j+1) = t;

end

end

R

//////////////////////////////////////////////////////////////////////////////////////////////////////////////

S = rgb2gray(imread('peppers\_color.jpg'));

R = S;

[row, col] = size(S);

S = imnoise(S, 'salt & pepper', 0.02);

% for gassian noise = imnoise(image, 'gaussian', m) adds guassian white

% noise with mean m

for i = 1:row-2

for j = 1:col-2

N = S(i:i+2, j:j+2);

%t = mean(N(:));

t = median(N(:));

%t = min(N(:));

%t = max(N(:));

R(i+1,j+1) = t;

end

end

figure; imshow(S);

figure; imshow(R);

figure; imshow((R - S), [0 1])