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```
clc;
A = imread('profile.jpeg');
subplot(3,3,1);
imshow(A);
title('Original Image');
A = double(A);
for i=1:1:8
    B=bitget(A,i);
    subplot(3,3,i+1);
    imshow(B);
    title(sprintf('Bit %d',i));
end

%reconstruct
R=bitget(A,8);
B=bitget(A,7);
R=power(2,7)*R+B;
figure,imshow(R);
title(sprintf('Reconstruct from bit 7 to 8'));

R=bitget(A,8);
for i=7:-1:4
    B=bitget(A,i);
    R=power(2,i-1)*R+B;
end
figure,imshow(R);
title(sprintf('Reconstruct from bit 4 to 8'));
```

Original Image



Bit 1



Bit 2



Bit 3



Bit 4



Bit 5



Bit 6



Bit 7



Bit 8



Reconstruct from bit 7 to 8



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## Reconstruct from bit 4 to 8



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