```
im=(imread('LENA.bmp'));
logo=im2bw(rgb2gray(imread('LOGO.bmp')));
figure(1)
subplot(1,2,1), imshow(im)
subplot(1,2,2), imshow(logo)
immod=im;
global cl
global len
[h1,w1]=size(im); %cover image
[r c]=size(logo); %logo
cl=150;
dl=cl;
cu=c1+99; du=d1+99;
x=1;
len=r*c;
t=0;
bitvector=reshape(logo,[1 r*c]);
%[mbitvector] = bitvectmodifi(bitvector);
embedarea=im(cl:cu,dl:du);
[x1,y1] = size (embedarea);
embedareavect=reshape(embedarea,[1 x1*y1]);
%modembedarea=embedarea;
modembedareavect=embedareavect;
nibitvector=bitvector;
bitvector=reshape(logo,[1 r*c]);
for t=1:len
```

```
pix=embedareavect(1,t);
          bin=dec2bin(pix,8);
          tmp(t,1) = pix; %tmp(t,2) = 999999;
          ic=bitvector(1,t);
          %bin(1,7) = num2str(v);
          bin(1,8) = num2str(ic);
          mpix=(bin2dec(bin));
          tmp(t,2) = mpix;
          modembedareavect(1,t)=mpix; %modembedareavect(1,t) ✓
-3;
          %nbitvector(x)=v;
          nbitvector(x+1) = w;
          nbitvector(x, 1) = ic;
          x=x+1;
end
modembedarea=reshape(modembedareavect,[x1 y1]);
immod(cl:cu,dl:du) = (modembedarea);
%[k]=bitvectsim(bitvector, nbitvector);
%figure(1), imshow(bitvector)%bitvector
figure (2), imshow ((immod)) %bitvector
rlogo=reshape(nbitvector,[r c]);
%figure(2), imshow(rlogo)
imwrite(immod, 'WATERMARKED LENA.bmp');
imwrite(rlogo, 'RLOGO.bmp');
%xlswrite('bintmp.xls',tmp);
corr2(im,immod)
psnr(im,immod)
```