clc;

clear all;

close all;

pkg load statistics;

y=normrnd(0,1,1,200);

Gy=periodogram(y);

Ry=abs(ifft(Gy,256));

Ry=[Ry(130:256);Ry(1:129)];

t=-127:1:128;

figure;

subplot(1,2,1);

plot(Gy);

xlabel("frequencysamples");

title('PSD');

subplot(1,2,2);

stem(t,Ry);

xlabel('time shift');

title('autocorrelation');

