```matlab
clearvars
close all
clc

% Coseno FFT

% % Fs = 200;
% % f = 10;
% % n = 0 : 1/Fs : 1;
% % L = length(n);
% % x = cos(2*pi*f*n);
% % subplot(1,2,1);plot(n,x);
% %
% % X = fft(x);
% % w = 0 : 2*pi/L : 2*pi - 2*pi/L;
% % subplot(1,2,2);plot(w,abs(X));

% Pulso FFT
Fs = 200;
n = 0 : 1/Fs : 1;
L = length(n);
% p1 = ones(1,20);
% p2 = zeros(1,L-20);
% p = [p1 p2];
p = zeros(1,L);
p(1:20) = ones(1,20);
subplot(1,2,1);stem(n,p);
P = fft(p);
w = 0 : 2*pi/L : 2*pi - 2*pi/L;
subplot(1,2,2);plot(w,abs(P));
```