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```
clear all; close all;
%Undamped
M=2;
J=2;
k=2;
b=0;

tfinal=15;
dt=.1;
timespan=linspace(1,tfinal,tfinal/dt);

%Run simulation
sim('Problem2')

%Figure
figure
plot(timespan,x)
grid on
title('Undamped System')
xlabel('Time(Sec)')
ylabel('Position')
legend('b=0, J=2, k=2','location','southeast')
```



