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% Tony Hyun Kim
% CS 224w, PS 3, Problem 4
% Script to plot the graph parameters under attack/failure
clear all; close all;

graphs = {'gnm',...
          'oregon1_010331',...
          'pa'};
scenarios = ['a', 'f'];
Y = 50;

Ng = length(graphs);
Ns = length(scenarios);

labels = cell(Ng*Ns,1);
li = 1;

colors  = 'brk';
markers = 'o^';
for gi = 1:Ng
    for si = 1:Ns
        file = dir(sprintf('%s_*_Y%d_%s.txt',...
                           graphs{gi}, Y, scenarios(si)));
        filename = file.name;
        data = load(filename);
        plot(data(:,1),data(:,2),...
             strcat(colors(gi),markers(si),'-'),...
             'MarkerFaceColor',colors(gi));
        hold on;
        labels{li} = strrep(filename,'_','\_');
        li = li + 1;
    end
end

xlim([0 Y/100]);
xlabel('Fraction of nodes removed');
ylabel('Relative size of the LCC');
legend(labels,'Location','SouthEast');
```