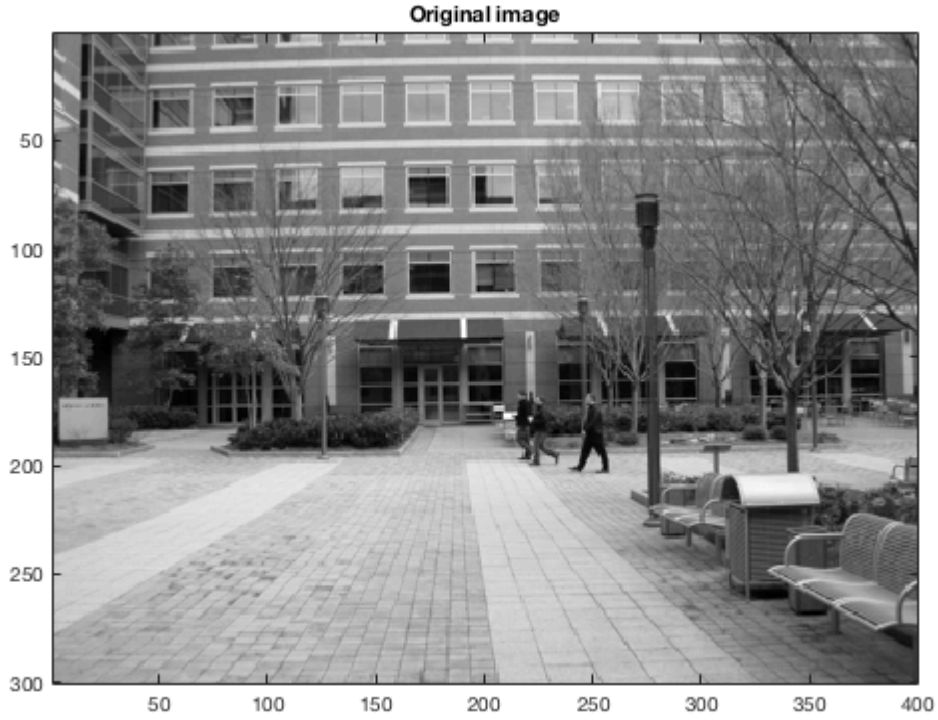
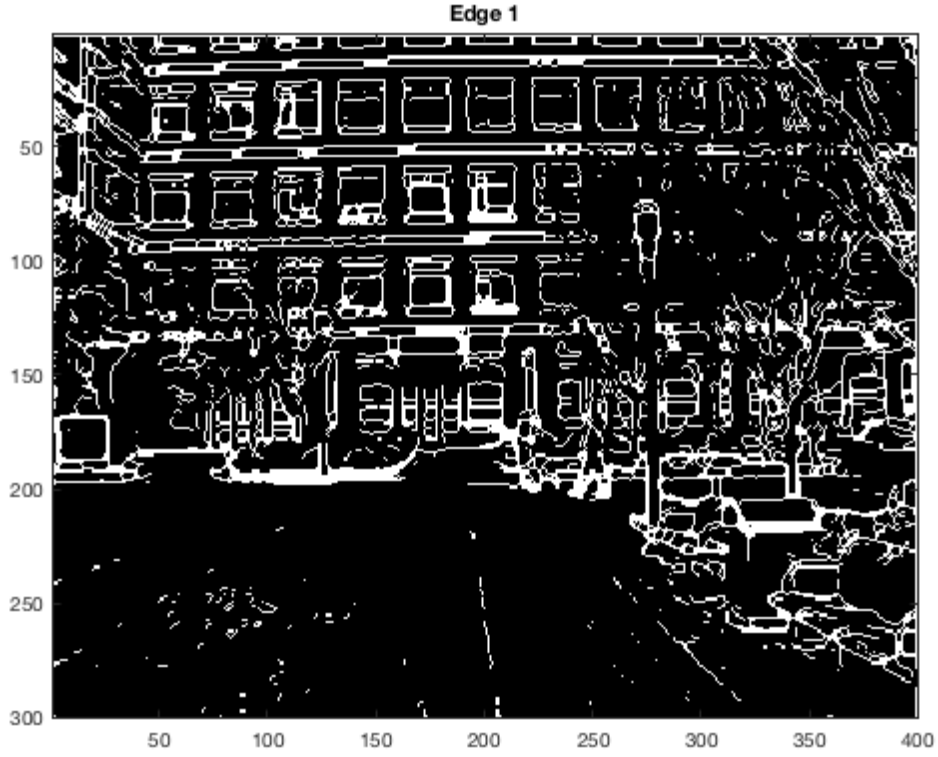
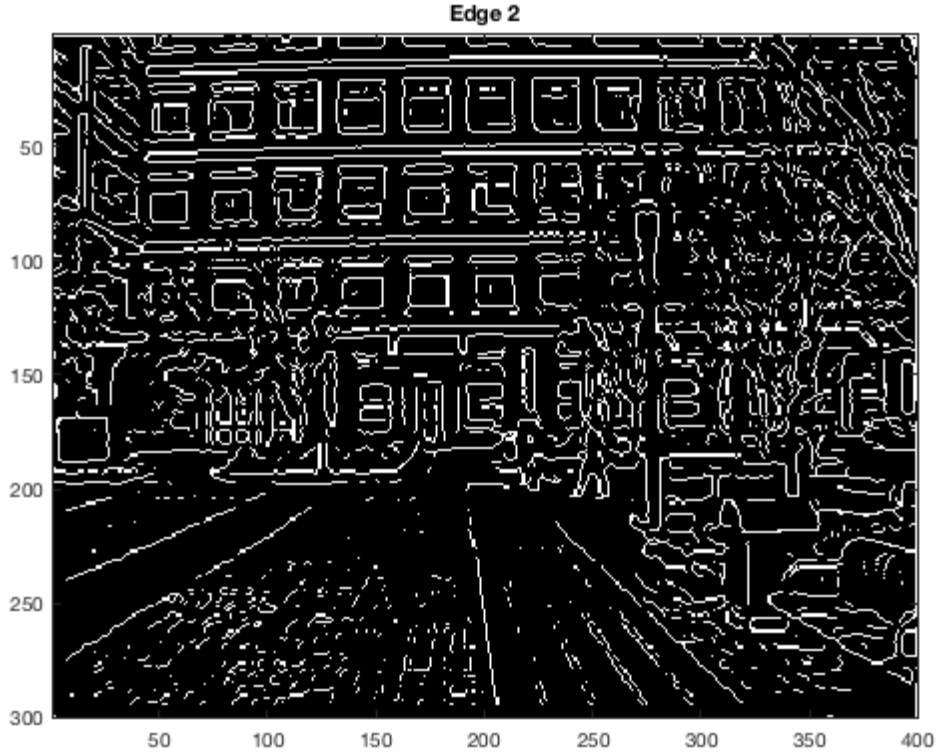
```
%============================== plotEdges ================================
%
%  script plotEdges.m
%
%
%  Loads the edgethresh.mat Matlab file (make sure to have it in your
%  path or your current directory) and then thresholds the edge scores
%  to identify which parts of the image reflect edge-like structures.
%
%============================== plotEdges ================================

%
%  Name:                plotEdges.m
%
%  Author:              Patricio A. Vela,                       pvela@gatech.edu
%
%  Created:             2014/01/13
%  Modified:    2014/01/13
%
%============================== plotEdges ================================

%--[1] Load the edgethresh Matlab file.
load('edgethresh.mat');

%--[2] Apply a threshold to the edge scores to get binary images.
thresh1 = 105.0;
thresh2 = 1.0;

fprintf('Threshold for edge 1: %f\n', thresh1);
fprintf('Threshold for edge 2: %f\n', thresh2);

edge1new = edge1 > thresh1;
edge2new = edge2 > thresh2;
detect1 = edge1new ;
detect2 = edge2new ;

%--[3] Up to you to run or not.  Thin out thick edge zones to give slim line.
detect1 = bwmorph(detect1, 'thin');
detect2 = bwmorph(detect2, 'thin');

%--[4] Plot the image and also visualize the detected edge locations.
figure(1);
  imagesc(I);
  colormap('gray');
  axis image;
  title('Original image');

figure(2);
  imagesc(detect1);
  colormap('gray');
  title('Edge 1');

figure(3);
  imagesc(detect2);
  colormap('gray');
  title('Edge 2');
```

```
Threshold for edge 1: 105.000000
Threshold for edge 2: 1.000000
```







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