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%ENGS 111
%Pratap Luitel
%HW5, Problem 1
%
%This function thresholds the given test and reference images
%based on the max and min values in them

function [imTest,imRef] = thresholdImage(imTest,imRef)

    bw1=im2bw(imRef,40/255);    % Threshold Reference image
    bw2=im2bw(imTest,40/255);   % Threshold Test image
    bw=bitor(bw1,bw2);
    [rr, cc]=find(bw==1);       % Find the indices for non-0 pixels
    rmin=min(rr);
    rmax=max(rr);
    cmin=min(cc);
    cmax=max(cc);
    imTest(rmax:end,:)=[];      % Remove from the bottom
    imTest(1:rmin,:)=[];        % Remove from the top
    imTest(:,cmax:end)=[];      % Remove from the right
    imTest(:,1:cmin)=[];        % Remove from the left
    % Repeat same cropping on the reference image
    imRef(rmax:end,:)=[];       % Remove from the bottom
    imRef(1:rmin,:)=[];         % Remove from the top
    imRef(:,cmax:end)=[];       % Remove from the right
    imRef(:,1:cmin)=[];         % Remove from the left

end

```

*Error using thresholdImage (line 12)  
Not enough input arguments.*

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