%Double thresholding

i= imread('image-slice055.jpg');

[m,n] = size (i);

i2 = zeros(size(i));

for y = 1:m

for x = 1:n

if i(y,x) >= 90 && i(y,x) <= 120

i2(y,x) = 1;

else

i2(y,x) = 0;

end

end

end

figure;

imshow(i2),title('Double Thresholding Segmentation');

%DILATION METHOD

se2 = strel('disk',1);

i3 = imdilate(i2,se2);

imshow(i3),title('Dilated');

%CLOSING METHOD

se4 = strel('disk',10);

close = imclose(i3,se4);

figure, imshow(close),title('Result after closing segmentation');

imwrite(close,'image-slice055.jpg');