Hw2

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Code:

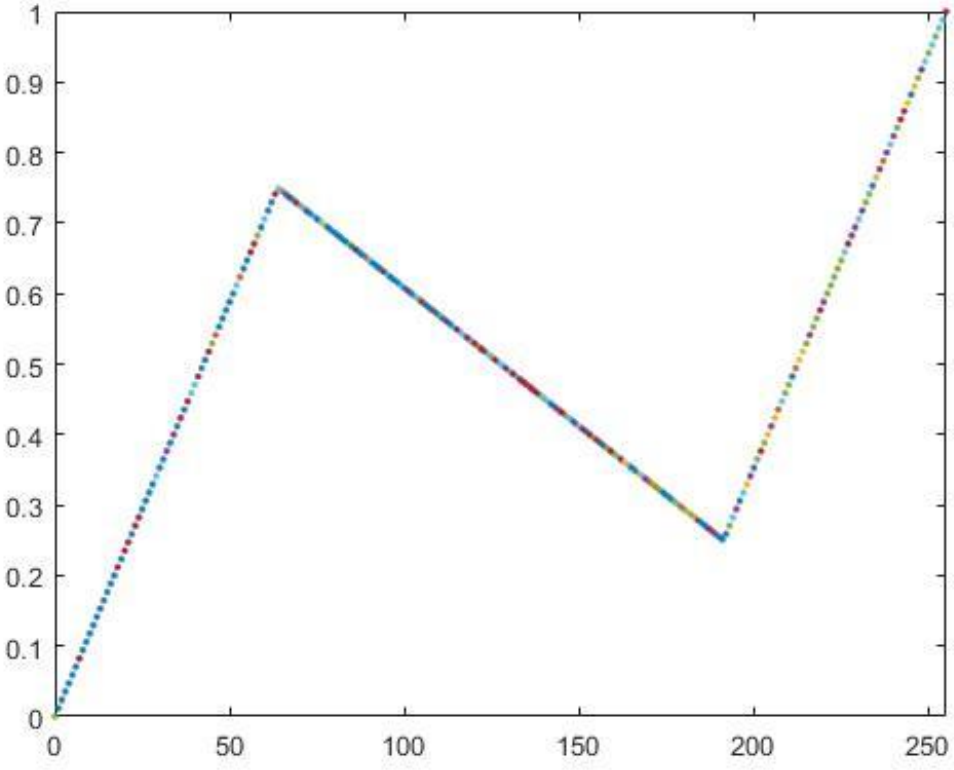
Hw2.m(定義 function)

```
function out = hw2(im,a,b)
N=length(a);
out=zeros(size(im));

for i =1:N-1
    pix=find(im>=a(i) & im<a(i+1));
    out(pix)=(im(pix)-a(i))*(b(i+1)-b(i))/(a(i+1)-a(i))+b(i);
end

pix = find(im==a(N));
out(pix)=b(N);
end
```

input.m(使用 function)

```
clc;clear all;close all

t=imread('tire.tif');

t2 = double(t)/255;

t3 =hw2(t2,[0 .25 .5 .75 1], [0 .75 .5 .25 1]);

figure

subplot(1,2,1)

imshow(t3)

subplot(1,2,2)

plot(t,t3,'.'),axis tight;
```

output:


1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
50
100
150
200
250