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# max and min filtering

```
clc;
clear all;
original_img=imread('numpy.png');
imshow(original_img);

%convert to black and white
BW=im2bw(original_img,0.6);
%min filter
minf=@(x) min(x(:));
maxf=@(x) max(x(:));
min_img=nlfilter(BW,[3,3],minf);
max_img=nlfilter(BW,[3,3],maxf);

subplot(2,2,1), imshow(BW),title('original image');
subplot(2,2,2), imshow(min_img),title('min filter');
subplot(2,2,3), imshow(max_img),title('max filter');
```

**original image**



**min filter**



**max filter**

