Homework 5

Instruction(40pts)：

1. Assume we have an image below,

0 1 2 3

4 4 7 8

3 3 0 1

5 1 0 3

If we have two 2x2 filters below to convolve this image with a stride of 1, and no padding is used,

Filter1:

1 2

3 -1

Filter2:

0 0

2 4

What feature maps can we get?

2. Based on the feature maps we got in question 1, what do we get if we perform a 3x3 max pooling on the feature maps?

3. Find your final project partners (no more than 3 persons each team), and start thinking, discussing and preparing your final project proposal. You will need to do your final project proposal on Mar.8.