Q3. Part 2
$$750032$$

$$645148$$

$$902254$$
Input $X = 634798$

$$575690$$

$$790823$$

Filter
$$f$$
 | 0 -1 = 2 0 -2 | 1 0 -1

I found the activation map by
Sliding the red square across the input
matrix and I used numpy to calculate
each dot product by doing
np.sum (a*f)

Activation Map From The First Layer

Q3.3

Output from applying max pooling on the output from Q3.2.

I slid the 2 x 2 red square filter across the activation map and took the max value.