1. F = C * (1 – alpha * M) + B * alpha * M
2.
rowstart = Max(0, y - R)
rowend = Min(y + R + 1, h)
colstart = Max(0, x - R)
colend = Min(x+R + 1, w)

3.
3.1 22*512 + 242 = **11506**
3.2 row = 12345/512 = **24**
    col = 12345 % 512 = **57**
3.3 **4**
3.4 4 * 512 = **2048**