Programming:

(a)

ABABABABAB0B0B0B0B0B0B0B0B0B0B0B

(b)

(IV | y1 |y2)

y1 = C(IV xor x1)

y2 = C(y1 xor x2)

D(y1) = D( C(IV xor x1)) = IV xor x1

=> x1 = D(y1) xor IV

D(y2) = D( C(y1 xor x2)) = y1 xor x2

=> x2 = D(y2) xor y1

Therefore, (x1 | x2) = (D(y1) xor IV | D(y2) xor y1)