Now Let's reset b (b=0) and a=0 ③

then we will have

'0' —[J   Q]—

'0' —[K]
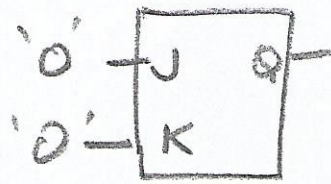
When a=b=0
J-K FF's HOLD their
content.

Let's set a (a=1) and reset b (b=0)
Now the circuit becomes:

1 ——

J_0 [J   Q] —→ Q_0 Q_1 toggles

k_0 [K]

[J   Q] —→ Q_1 ?
J_1
K_1 [K]
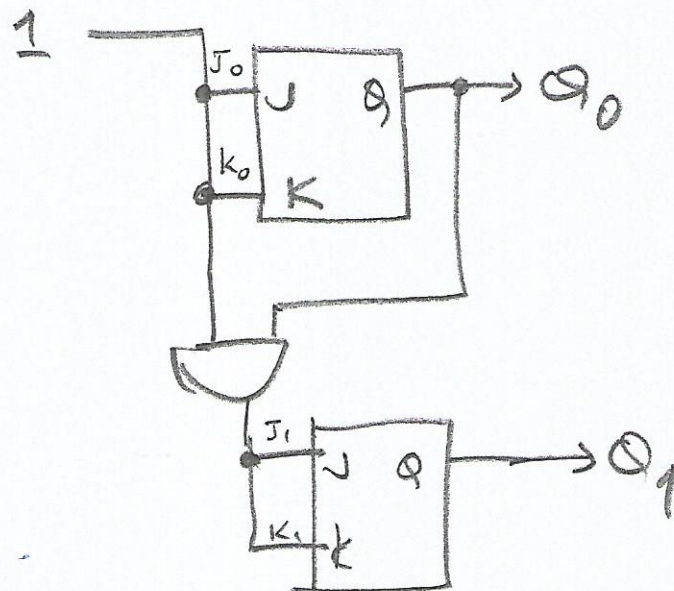
Here we don't have an independent input

	$Q_1 Q_0$	$Q_1^+ Q_0^+$
S0	0 0	0 1
S1	0 1	1 0
S2	1 0	1 1
S3	1 1	0 0

$Q_0 = Q_0'$ since $J_0 = K_0 = 1$

$J_1 = K_1 = Q_0$

$Q_1 = Q_0 Q_1' + Q_0' Q_1$