

Bilgi Sayar Donanımı

1. Ödevi

Muhammet Kayra Bulut

20011901

q_3	q_2	q_1	q_0	Q_3	Q_2	Q_1	Q_0	j_3	k_3	j_2	k_2	j_1	k_1	j_0	k_0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	1	1	1	1	1	0	1	0	1	0	0	0
0	0	1	0	1	1	1	0	1	0	1	0	0	0	0	0
0	0	1	1	1	1	0	1	1	0	1	0	0	1	0	0
0	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0
0	1	0	1	1	0	1	1	1	0	0	1	1	0	0	0
0	1	1	0	1	0	1	0	1	0	0	1	0	0	0	0
0	1	1	1	1	0	0	1	1	0	0	1	0	1	0	0
1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
1	0	0	1	0	1	1	1	0	1	1	0	1	0	0	0
1	0	1	0	0	1	1	0	0	1	1	0	0	0	0	0
1	0	1	1	0	1	0	1	0	1	1	0	0	1	0	0
1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0
1	1	0	1	0	0	1	1	0	1	0	1	1	0	0	0
1	1	1	0	0	0	1	0	0	1	0	1	0	0	0	0
1	1	1	1	0	0	0	1	0	1	0	1	0	1	0	0

j_3

q_3q_2 \ q_1q_0	00	01	11	10
00	0	0	1	1
01	0	1	1	0
11	0	1	1	0
10	0	1	1	0

$\rightarrow q_1 + q_2 + q_3$

$j_3 = k_3$

q_0

k_3

q_3q_2 \ q_1q_0	00	01	11	10
00	0	0	1	1
01	0	1	1	0
11	0	1	1	0
10	0	1	1	0

$\rightarrow q_1 + q_2 + q_3$

q_1

q_2

q_0

j_0

q_3q_2 \ q_1q_0	00	01	11	10
00	0	0	1	1
01	0	1	1	0
11	0	1	1	0
10	0	1	1	0

$\rightarrow 0$

$j_0 = k_0$

k_0

q_3q_2 \ q_1q_0	00	01	11	10
00	0	0	1	1
01	0	1	1	0
11	0	1	1	0
10	0	1	1	0

$\rightarrow 0$

j_2

$q_1 q_0 \backslash q_3 q_2$	00	01	11	10
00	0	1	1	1
01	0	0	1	0
11	0	0	0	0
10	0	1	1	1

$\rightarrow q_1 + q_0$

\downarrow
 q_0

$\rightarrow q_1$

$j_2 = k_2$

k_2

$q_1 q_0 \backslash q_3 q_2$	00	01	11	10
00	0	0	1	1
01	0	1	1	1
11	0	1	1	1
10	0	0	1	1

$\rightarrow q_1 + q_0$

\downarrow
 q_0

\downarrow
 q_1

j_1

$q_1 q_0 \backslash q_3 q_2$	00	01	11	10
00	0	1	0	0
01	0	1	0	0
11	0	1	0	0
10	0	1	0	0

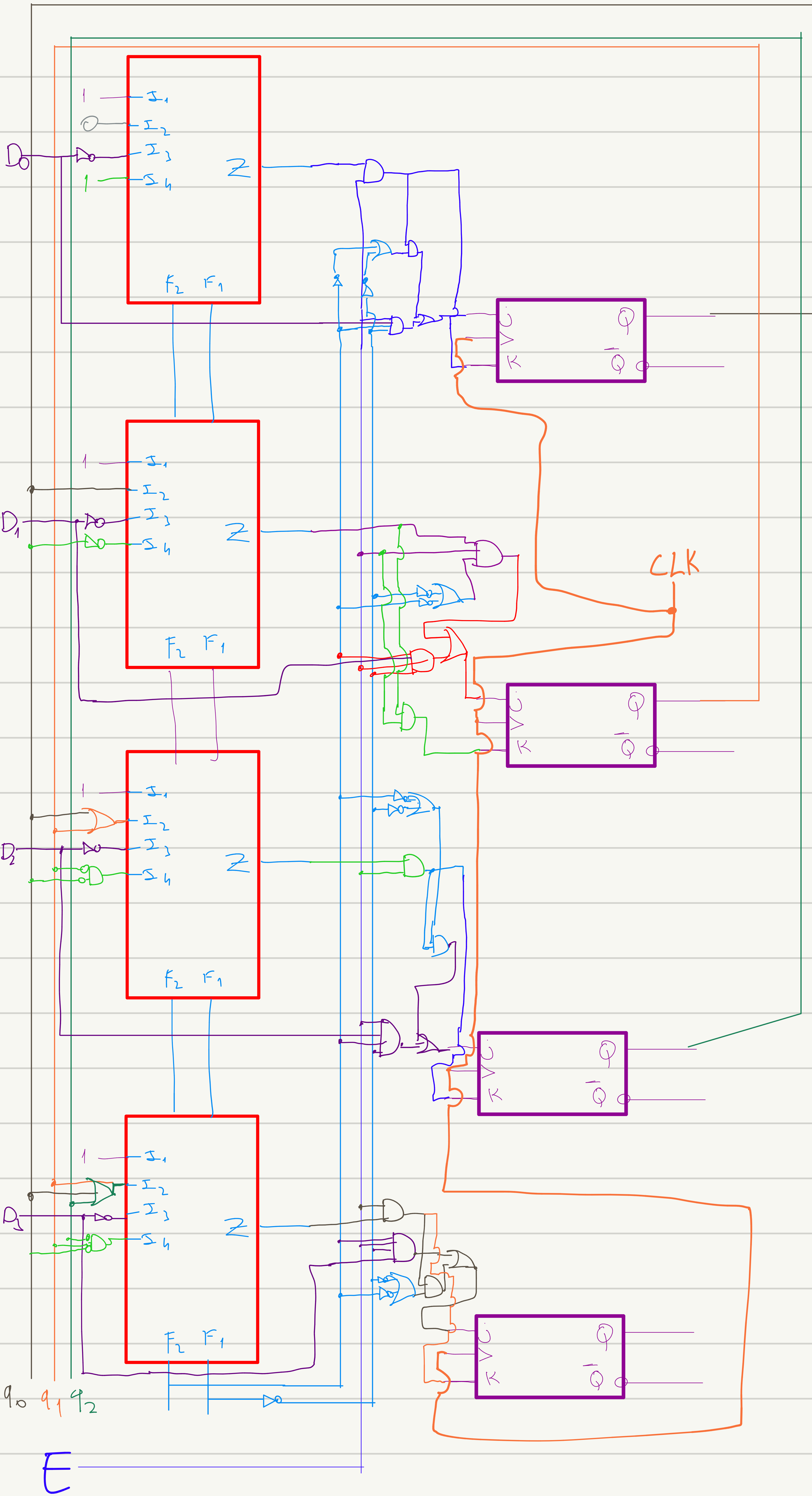
$\rightarrow q_0$

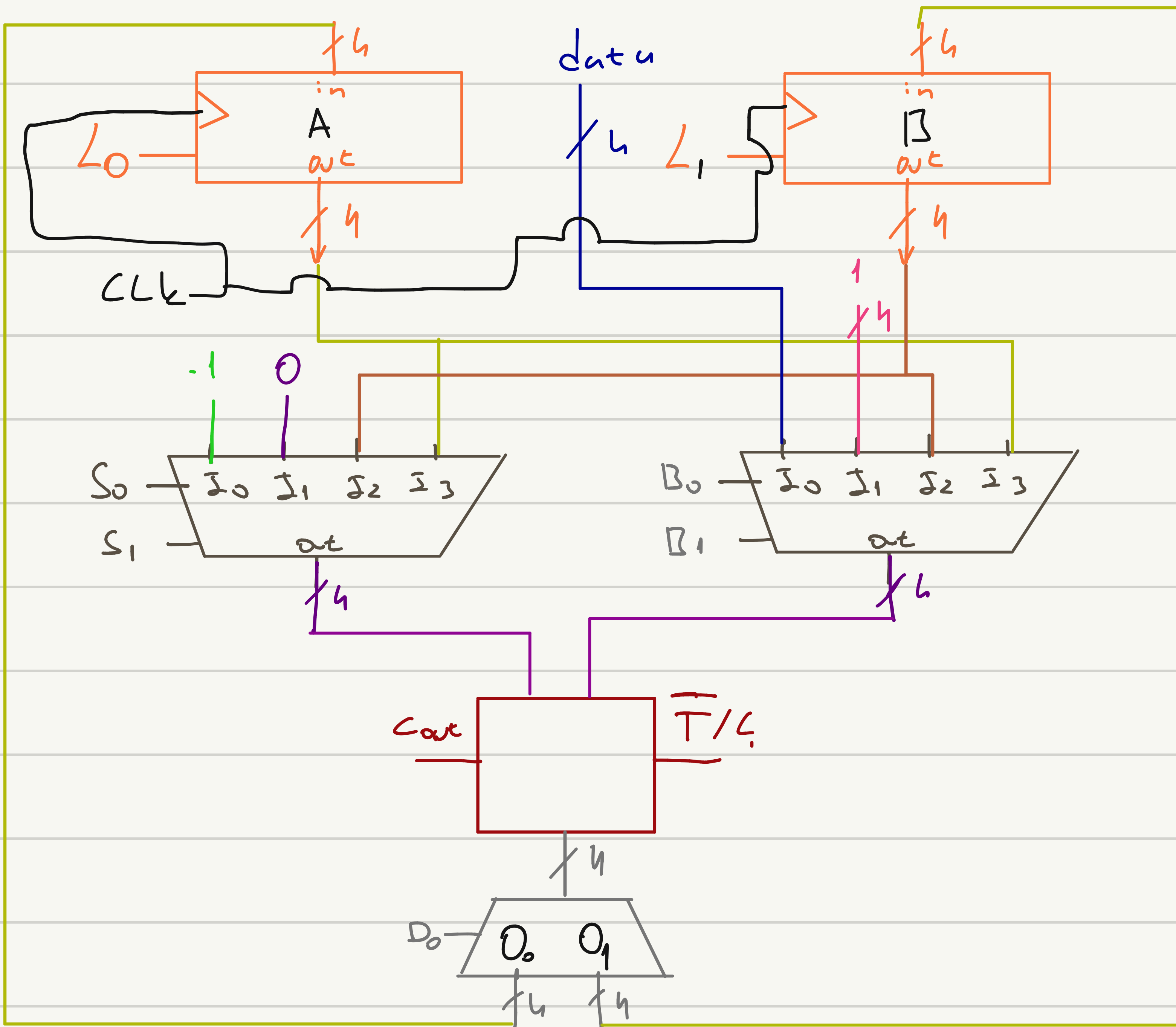
$j_1 = k_1$

k_1

$q_1 q_0 \backslash q_3 q_2$	00	01	11	10
00	0	0	1	0
01	0	0	1	0
11	0	0	1	0
10	0	0	1	0

$\rightarrow q_0$





$L_0 \bar{S}_1 S_0 \bar{A}, \bar{B}_0 \bar{T/C}, \bar{D}_0$
 $A \leftarrow \text{data}$

$L_0 \bar{S}_1 S_0 B, B, \bar{T/C}, \bar{D}_0$
 $A \leftarrow A$

$L_0 S_1 \bar{S}_0 B, B, \bar{T/C}, \bar{D}_0$
 $A \leftarrow A + B$

$B \leftarrow A - B$
 $L_1 S_1 S_0 B, \bar{B}_0 \bar{T/C}, D_0$

$A \leftarrow B - 1$

$A \leftarrow \bar{A}$

$L_0 S_1 \bar{S}_0 \bar{B}, B, \bar{T/C}, \bar{D}_0$

$L_0 \bar{S}_1 S_0 B, B, \bar{T/C}, \bar{D}_0$

$A \leftarrow \bar{B} + 1$

$L_0 \bar{S}_1 S_0 B, \bar{B}_0 \bar{T/C}, D_0$