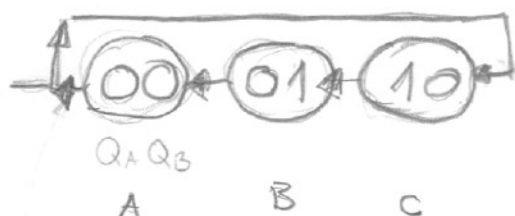


① Naredi vezje, ki generira sekvenco glede na vhodni signal x .

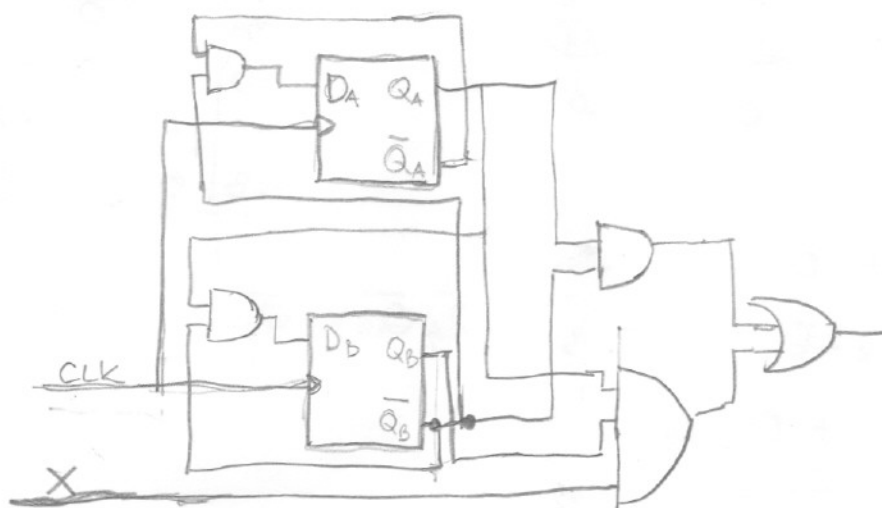


stanje	Q_A	Q_B	X	Z
$A \rightarrow C$	0	0	X	0
$C \rightarrow B$	1	0	X	1
$B \rightarrow A$	0	1	1	1
	0	1	0	0

$$D_A = \overline{Q_A} \overline{Q_B}$$

$$D_B = \overline{Q_A} Q_B$$

$$Z = Q_A \overline{Q_B} + \overline{Q_A} Q_B X$$



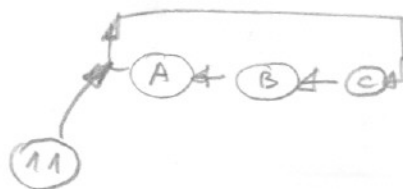
Kaj se zgodi, če se ob vzniku vezja posloni v stanje 11!

Ob naslednjem pulzu gre:

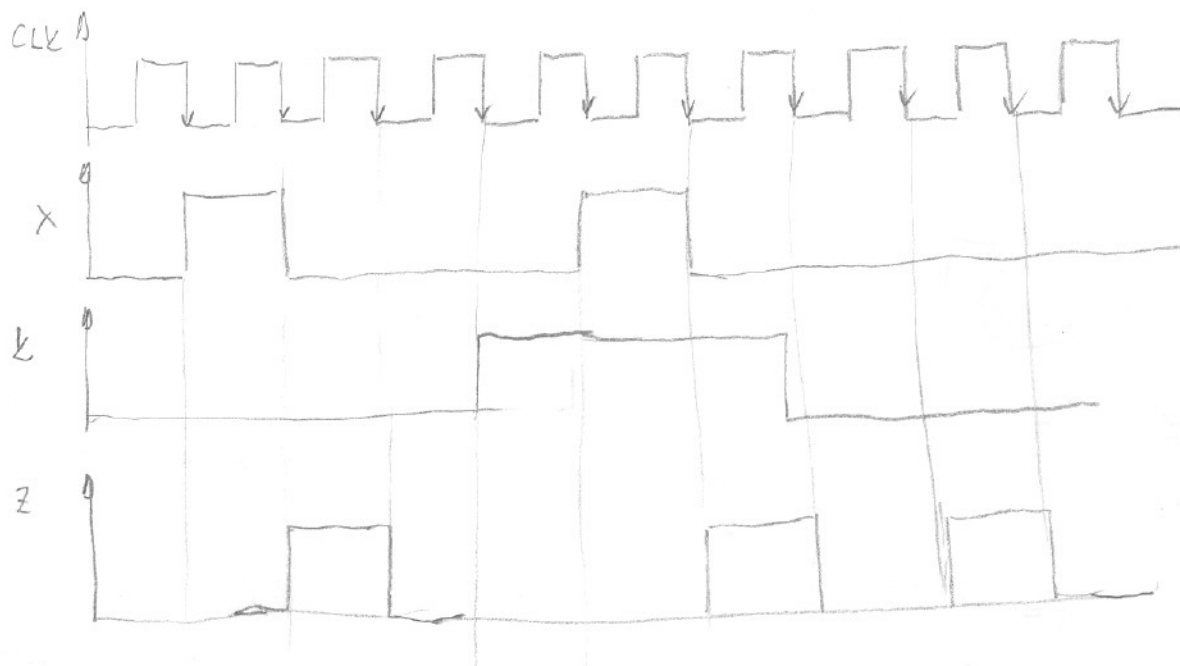
$D_A = 0, D_B = 0 \rightarrow$ stanje poteka po tem normalno

Kakšen je odgovor Z ?

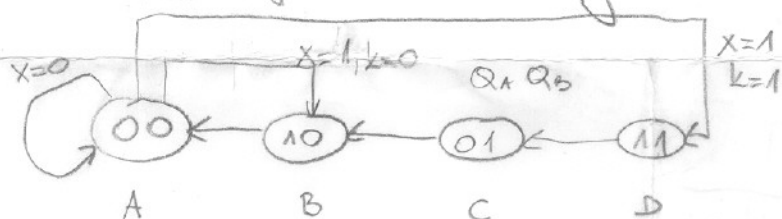
$Z = 0 \checkmark$



- 2) Imamo vezje ki ima dve kontrolne signale X in k . Sestavimo vezje ki se na vhodni smek X odzove z enim zloženim smekom k ko $k=0$ in z drugim ko je $k=1$.



Vzemimo, da je izhod iz vezja Q_A !



	Q_A	Q_B	X	k
$A \rightarrow A$	0	0	0	x
$A \rightarrow B$	0	0	1	0
$B \rightarrow A$	1	0	x	x
$A \rightarrow D$	0	0	1	1
$D \rightarrow C$	1	1	x	x
$C \rightarrow B$	0	1	x	x

$$D_A = \bar{Q}_A \bar{Q}_B X k + \bar{Q}_A Q_B + \bar{Q}_A \bar{Q}_B X \bar{k}$$

$$= \bar{Q}_A \bar{Q}_B X (k + \bar{k}) + \bar{Q}_A Q_B = \bar{Q}_A \bar{Q}_B X + \bar{Q}_A Q_B$$

$$D_B = \bar{Q}_A \bar{Q}_B X k + Q_A Q_B$$

