

## 8. Domaća naloga

$$D'_Q = f_{\{0,1,33\}}(x_1, \bar{x}_2, \bar{x}_3, \bar{Q})$$

$$D'_Q = Q \cdot \bar{t} \vee \bar{Q} \cdot t$$

| $x_1$ | $x_2$ | $x_3$ | $Q$ | $x_1$ | $\bar{x}_2$ | $\bar{x}_3$ | $\bar{Q}$ | $f_{\{0,1,33\}}(x_1, \bar{x}_2, \bar{x}_3, \bar{Q})$ | $t$ |
|-------|-------|-------|-----|-------|-------------|-------------|-----------|--|-----|
| 0     | 0     | 0     | 0   | 0     | 1           | 1           | 1         | 1  | 1   |
| 0     | 0     | 0     | 1   | 0     | 1           | 1           | 0         | 0  | 1   |
| 0     | 0     | 1     | 0   | 0     | 1           | 0           | 1         | 0  | 0   |
| 0     | 0     | 1     | 1   | 0     | 1           | 0           | 0         | 1  | 0   |
| 0     | 1     | 0     | 0   | 0     | 0           | 1           | 1         | 0  | 0   |
| 0     | 1     | 0     | 1   | 0     | 0           | 1           | 0         | 1  | 0   |
| 0     | 1     | 1     | 0   | 0     | 0           | 0           | 1         | 0  | 0   |
| 0     | 1     | 1     | 1   | 0     | 0           | 0           | 0         | 1  | 1   |
| 1     | 0     | 0     | 0   | 1     | 1           | 1           | 1         | 0  | 0   |
| 1     | 0     | 0     | 1   | 1     | 1           | 1           | 0         | 1  | 0   |
| 1     | 0     | 1     | 0   | 1     | 1           | 0           | 1         | 0  | 1   |
| 1     | 0     | 1     | 1   | 1     | 1           | 0           | 0         | 1  | 1   |
| 1     | 1     | 0     | 0   | 1     | 0           | 1           | 1         | 0  | 1   |
| 1     | 1     | 0     | 1   | 1     | 0           | 1           | 0         | 1  | 1   |
| 1     | 1     | 1     | 0   | 1     | 0           | 0           | 1         | 0  | 1   |
| 1     | 1     | 1     | 1   | 1     | 0           | 0           | 0         | 1  | 0   |

$$t(x_1, x_2, x_3, Q) = \bar{x}_1 \bar{x}_2 \bar{x}_3 \vee \bar{x}_1 \bar{x}_2 x_3 \vee x_1 x_2 \bar{x}_3 \vee \bar{x}_1 x_2 x_3 \bar{Q}$$

$$t_0(x_2, x_3, Q) = \bar{x}_2 \bar{x}_3 \vee x_2 x_3 \bar{Q}$$

$$t_{00}(x_3, Q) = \bar{x}_3$$

$$t_{01}(x_3, Q) = x_3 \bar{Q}$$

$$t_{010}(Q) = 0$$

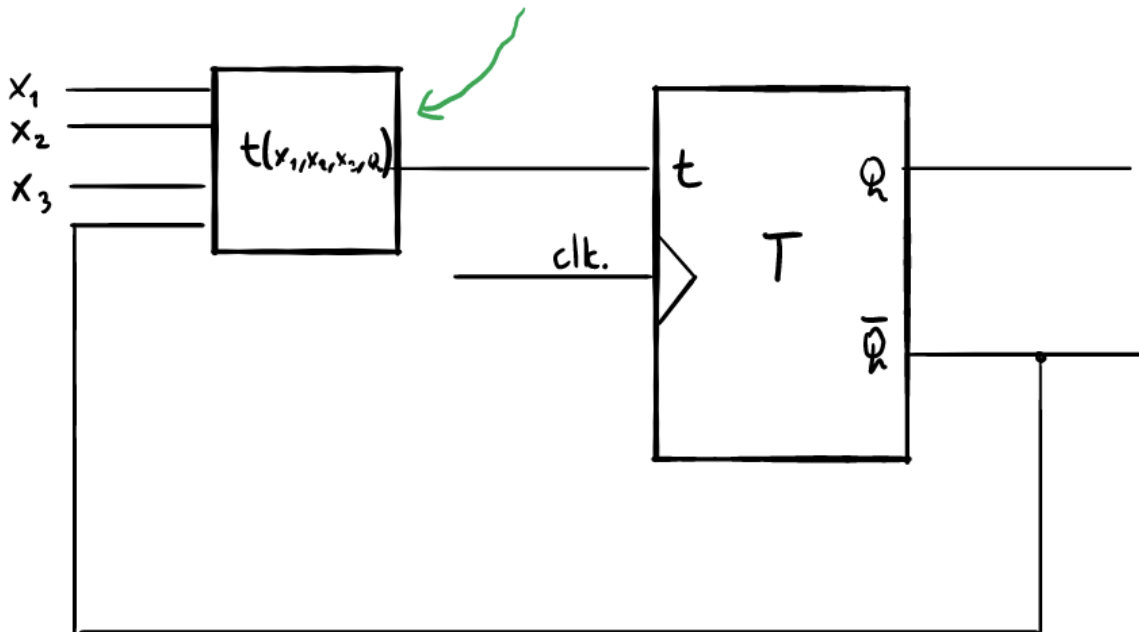
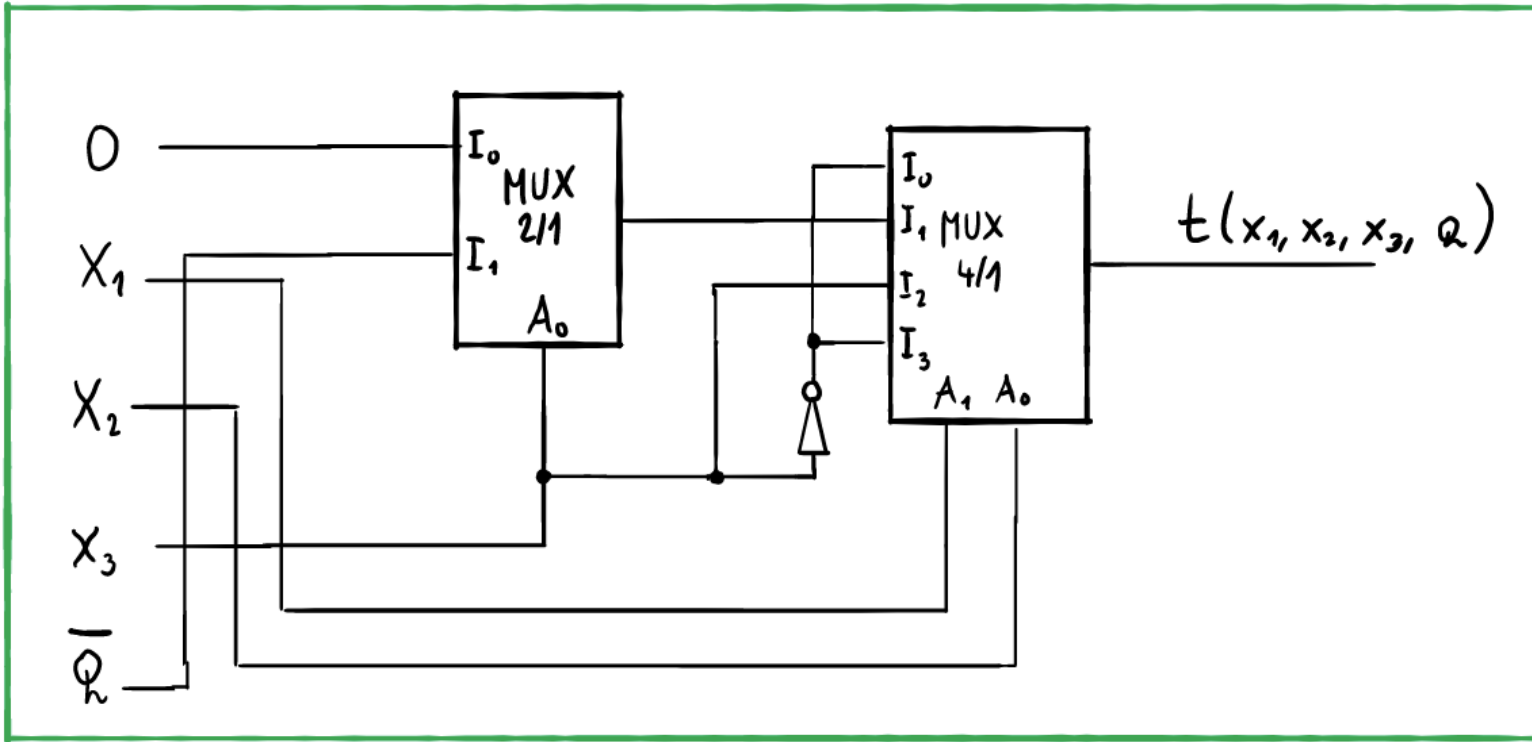
$$t_{011}(Q) = \bar{Q}$$

$$t_1(x_2, x_3, Q) = \bar{x}_2 x_3 \vee x_2 \bar{x}_3$$

$$t_{10}(x_3, Q) = x_3$$

$$t_{11}(x_3, Q) = \bar{x}_3$$

# Shema:



# Realizacija v Logisimu

