Hafra- Übungsblatt 4,

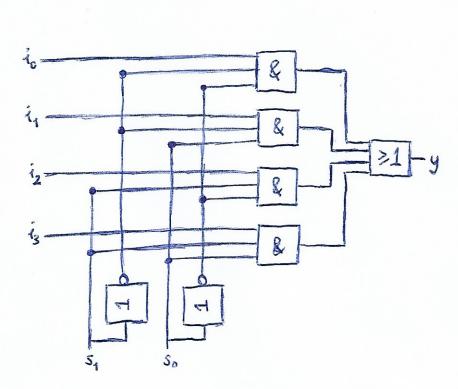
Grappe-51

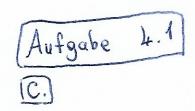
Ali Özgür Tezcan-216399 Efe Mehmet Karaüzümcüoglu

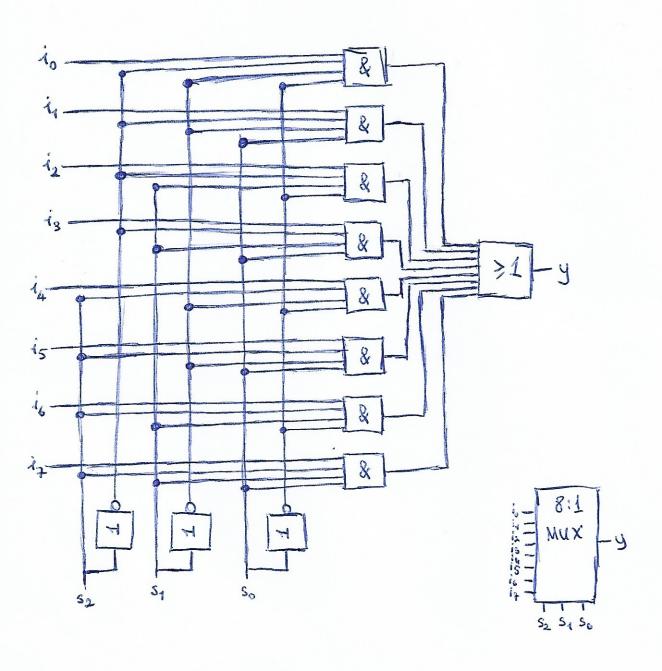
-214959

Aufgabe 4.1

d. 4:1 MUX - 9





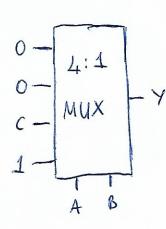


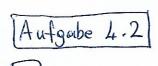
Aufgabe 4.1

Y = (AABAC) V(AABAC) V (AABAC)

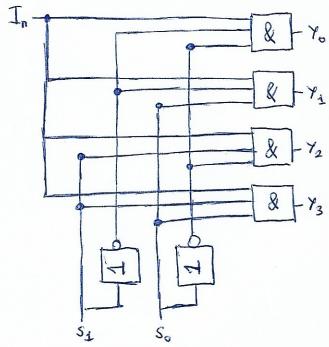
| 0 | | | | A |
|---|----|------------|---|------------|
| C | | 8:2 Mux | L | |
| 6 |)— | Mux | (| - > |
| 1 | | | | |
| 1 | | | | |

| A | B | C | Y |
|---|---|---|---|
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 0 |
| ٥ | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | Q | 1 |
| 1 | 1 | 1 | 1 |
| | | | |





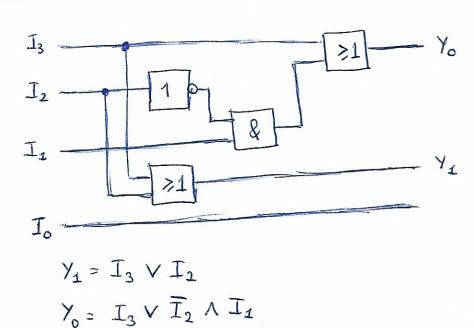




$$Y_0 = \overline{S_1} \wedge \overline{S_0} \wedge \overline{I}$$
 $Y_2 = S_1 \wedge \overline{S_0} \wedge \overline{I}$

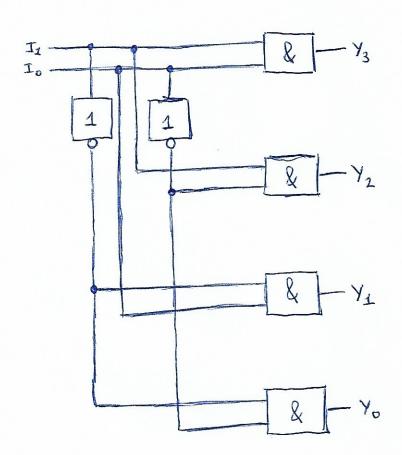
$$Y_1 = \overline{S_1} \wedge S_0 \wedge I$$
 $Y_3 = S_1 \wedge S_0 \wedge I$

Aufgabe 4.3









$$Y_3 = \overline{I}_1 \wedge \overline{I}_0$$

$$Y_2 = \overline{I}_1 \wedge \overline{I}_0$$

$$Y_1 = \overline{I}_1 \wedge \overline{I}_0$$

$$Y_0 = \overline{I}_1 \wedge \overline{I}_0$$