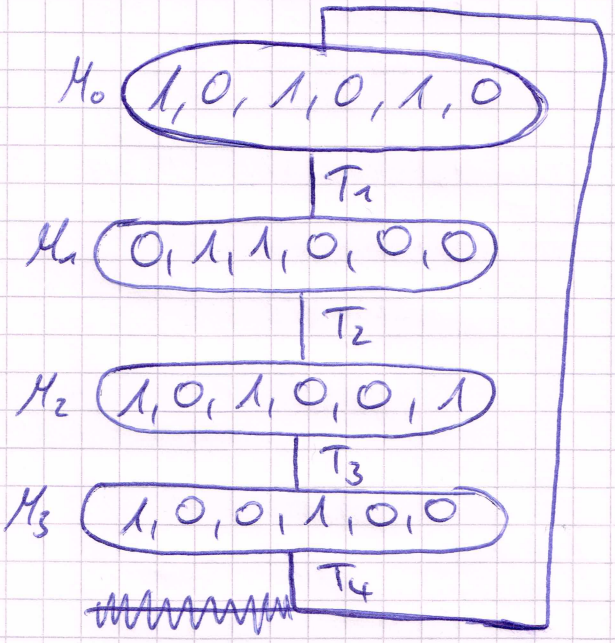
RT VII Nr. 3. b)

	Markierung						
Nr	P_1	P_2	P_3	P_4	P_5	P_6	Schaltung
M_0	1	0	1	0	1	0	$t_1 \rightarrow M_1$
M_1	0	1	1	0	0	0	$t_2 \rightarrow M_2$
M_2	1	0	1	0	0	1	$t_3 \rightarrow M_3$
M_3	1	0	0	1	0	0	$t_4 \rightarrow M_0$



Safeness: This petri net is safe because it is 1-bounded. Every place got maximum 1 Token at any time.

Liveness: This petri net is "live" because it is deadlock-free. The last state M_3 goes back to the main state M_0 by activating transition T_4.

RT VII Nr. 3a

Safeness: A petri net is safe, if it is 1-bounded.
That means at any time at every place there is maximum
1 Token on it. If there are, as an example, at one
time 2 Tokens on one place the petri net
would be 2-bounded (safe).

Liveness: A petri net is called "live", if the net modeling is
deadlock-free which implies that any marking M_x can
fire any transition T_x in the network.