



How to solve the problem:

The solution can be created within the SFC editor an is:

The screenshot shows a window titled "show\_sfc\_mat.vi" with a table of transition values. The table has 8 rows (Steps) and 9 columns (Transitions). The steps are INIT, s0, s1, s2, s3, s4, s5, and s6. The transitions are t1 through t9. The values are as follows:

Steps	t1	t2	t3	t4	t5	t6	t7	t8	t9
INIT	-1	0	0	0	0	0	0	0	0
s0	1	-1	-1	0	0	0	0	1	0
s1	0	0	1	0	0	0	-1	0	0
s2	0	1	0	-1	0	0	0	0	0
s3	0	0	0	0	1	-1	0	0	-1
s4	0	1	0	0	-1	0	0	0	1
s5	0	0	0	1	0	-1	0	0	0
s6	0	0	0	0	0	1	1	-1	0