

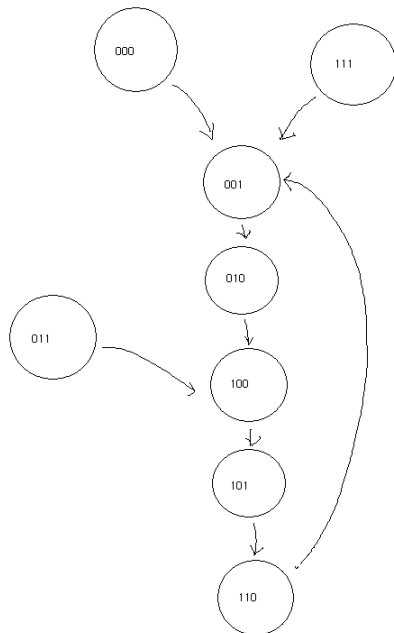
1. This is the state diagram:

C	B	A	C+	B+	A+
0	0	0	0	0	1
1	1	1	0	0	1
0	0	1	0	1	0
0	1	1	1	0	0
1	0	0	1	0	1
1	0	1	1	1	0
1	1	0	0	0	1

$$C+ = \overline{C}BA + C\overline{B}A + C\overline{B}\overline{A}$$

$$B+ = \overline{C}BA + CBA$$

$$A+ = CBA + C\overline{B}A + C\overline{B}\overline{A} + CBA$$



4.

- a) Inputs: Externally, any of the drying options, such as cotton fabrics, permanent press fabrics, timed drying, etc. and their settings. Internally, information from temperature and humidity sensors, timer. Output: Lights indicating which stage it is in, i.e. drying, cool down, stop. States: Different drying options, cool down and stop states.

Here is the state diagram: (only the state transition for cotton fabrics is given. The rest will be the same)

(Assume it's a moore machine. Output of "drying" when drying is proceeding, whether it be cotton fabrics, press or timed drying.)

wet: input from the sensor. Assume that for different drying mode, the humidity requirement is different.

wet / drying

