



| Present State |   |   | Next state                | M1       | MT    | M2    | S     |
|---------------|---|---|---------------------------|----------|-------|-------|-------|
| A             | B | C | Input                     | A* B* C* | R Y G | R Y G | R Y G |
| 0             | 0 | 1 | $\overline{\text{sec 7}}$ | 0 0 1    | 0 0 1 | 1 0 0 | 0 0 1 |
| 0             | 0 | 1 | sec 7                     | 0 1 0    | 0 0 1 | 1 0 0 | 0 0 1 |
| 0             | 1 | 0 | $\overline{\text{sec 2}}$ | 0 1 0    | 0 0 1 | 1 0 0 | 0 1 0 |
| 0             | 1 | 0 | sec 2                     | 0 1 1    | 0 0 1 | 1 0 0 | 0 1 0 |
| 0             | 1 | 1 | $\overline{\text{sec 5}}$ | 0 1 1    | 0 0 1 | 0 0 1 | 1 0 0 |
| 0             | 1 | 1 | sec 5                     | 1 0 0    | 0 0 1 | 0 0 1 | 1 0 0 |
| 1             | 0 | 0 | $\overline{\text{sec 2}}$ | 1 0 0    | 0 1 0 | 0 1 0 | 1 0 0 |
| 1             | 0 | 0 | sec 2                     | 1 0 1    | 0 1 0 | 0 1 0 | 1 0 0 |
| 1             | 0 | 1 | $\overline{\text{sec 3}}$ | 1 0 1    | 1 0 0 | 1 0 0 | 1 0 0 |
| 1             | 0 | 1 | sec 3                     | 1 1 0    | 1 0 0 | 1 0 0 | 1 0 0 |
| 1             | 1 | 0 | $\overline{\text{sec 2}}$ | 1 1 0    | 1 0 0 | 1 0 0 | 1 0 0 |
| 1             | 1 | 0 | sec 2                     | 0 0 1    | 1 0 0 | 1 0 0 | 1 0 0 |