

News Box

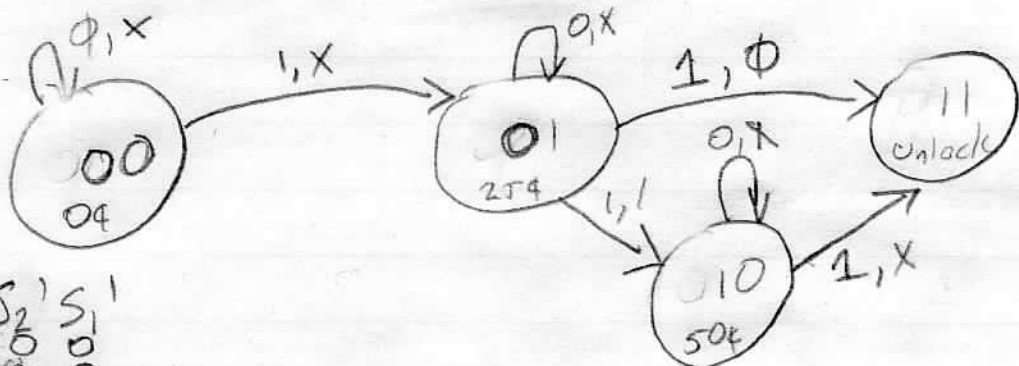
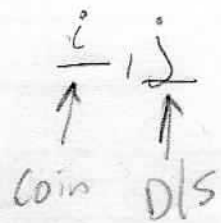
Quarters Only $\left\{ \begin{array}{l} \text{Daily } 50¢ \\ \text{Sunday } 25¢ \end{array} \right.$

Inputs: ① 0 \Rightarrow Daily 1 \Rightarrow Sunday
 ② 0 \Rightarrow No coin 1 \Rightarrow 25¢

States

- 00 No money inserted
- 01 25¢ inserted
- 10 50¢ inserted
- 11 Unlock door

Inputs



| $S_2 S_1$ | C | D/S |
|-----------|---|-----|
| 00 | 0 | 0 |
| 00 | 0 | 1 |
| 00 | 1 | 0 |
| 00 | 1 | 1 |
| 01 | 0 | 0 |
| 01 | 0 | 1 |
| 01 | 1 | 0 |
| 01 | 1 | 1 |
| 10 | 0 | 0 |
| 10 | 0 | 1 |
| 10 | 1 | 0 |
| 10 | 1 | 1 |
| 11 | 0 | 0 |
| 11 | 0 | 1 |
| 11 | 1 | 0 |
| 11 | 1 | 1 |

| S_2' | S_1' |
|--------|--------|
| 00 | 00 |
| 00 | 01 |
| 00 | 10 |
| 00 | 11 |
| 01 | 00 |
| 01 | 01 |
| 01 | 10 |
| 01 | 11 |
| 10 | 00 |
| 10 | 01 |
| 10 | 10 |
| 10 | 11 |
| 11 | 00 |
| 11 | 01 |
| 11 | 10 |
| 11 | 11 |

| S_2' | C | D/S | S_1' |
|--------|---|-----|--------|
| 00 | 0 | 0 | 00 |
| 00 | 0 | 1 | 01 |
| 00 | 1 | 0 | 10 |
| 00 | 1 | 1 | 11 |
| 01 | 0 | 0 | 00 |
| 01 | 0 | 1 | 01 |
| 01 | 1 | 0 | 10 |
| 01 | 1 | 1 | 11 |
| 10 | 0 | 0 | 00 |
| 10 | 0 | 1 | 01 |
| 10 | 1 | 0 | 10 |
| 10 | 1 | 1 | 11 |
| 11 | 0 | 0 | 00 |
| 11 | 0 | 1 | 01 |
| 11 | 1 | 0 | 10 |
| 11 | 1 | 1 | 11 |

$$S_2' = S_2 + S_1 C$$

| S_1' | C | D/S | S_2' |
|--------|---|-----|--------|
| 00 | 0 | 0 | 00 |
| 00 | 0 | 1 | 01 |
| 00 | 1 | 0 | 10 |
| 00 | 1 | 1 | 11 |
| 01 | 0 | 0 | 00 |
| 01 | 0 | 1 | 01 |
| 01 | 1 | 0 | 10 |
| 01 | 1 | 1 | 11 |
| 10 | 0 | 0 | 00 |
| 10 | 0 | 1 | 01 |
| 10 | 1 | 0 | 10 |
| 10 | 1 | 1 | 11 |
| 11 | 0 | 0 | 00 |
| 11 | 0 | 1 | 01 |
| 11 | 1 | 0 | 10 |
| 11 | 1 | 1 | 11 |

$$S_1' = S_1 \bar{C} + \bar{S}_1 C + C \bar{D/S}$$