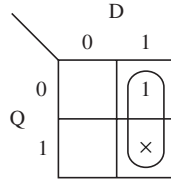
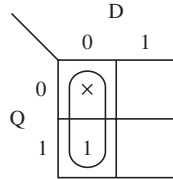


| $Q(t)$ | $D(t)$ | $Q(t + 1)$ | $S(t)$ | $R(t)$ |
|--------|--------|------------|----------|----------|
| 0 | 0 | 0 | 0 | \times |
| 0 | 1 | 1 | 1 | 0 |
| 1 | 1 | 1 | \times | 0 |
| 1 | 0 | 0 | 0 | 1 |

(a) Design table.



(b) Karnaugh map for S .



(c) Karnaugh map for R .