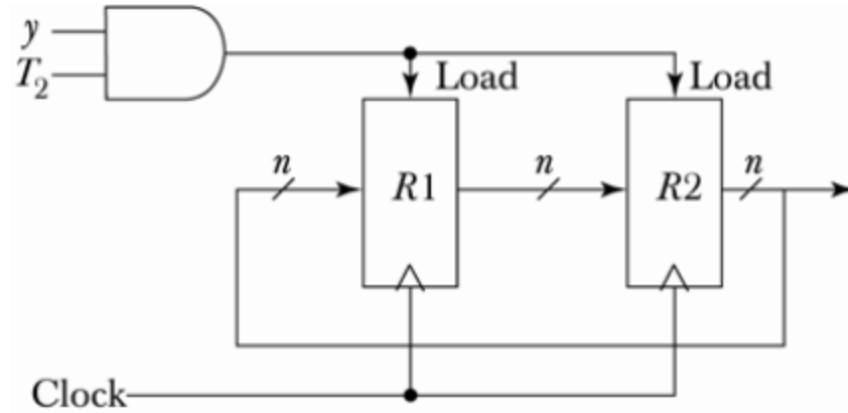


**4.1****4.3**

P:  $R1 \leftarrow R2$

P'Q:  $R1 \leftarrow R3$

**4.6**

- (a) 4 selection lines to select one of 16 registers.
- (b)  $16 \times 1$  multiplexers.
- (c) 32 multiplexers, one for each bit of the registers.

## 4.8

