(a) No buffering

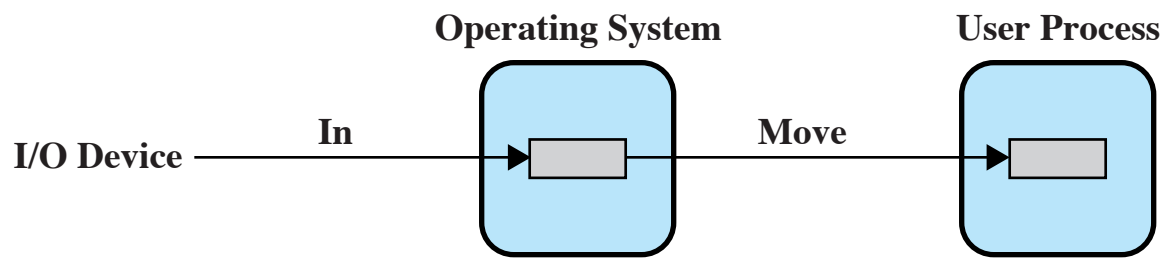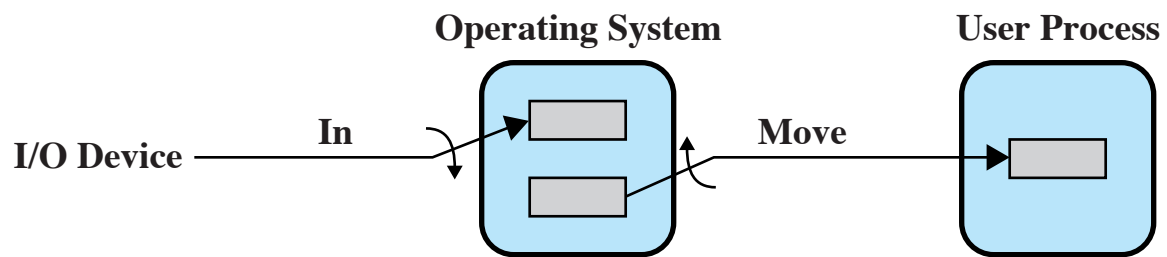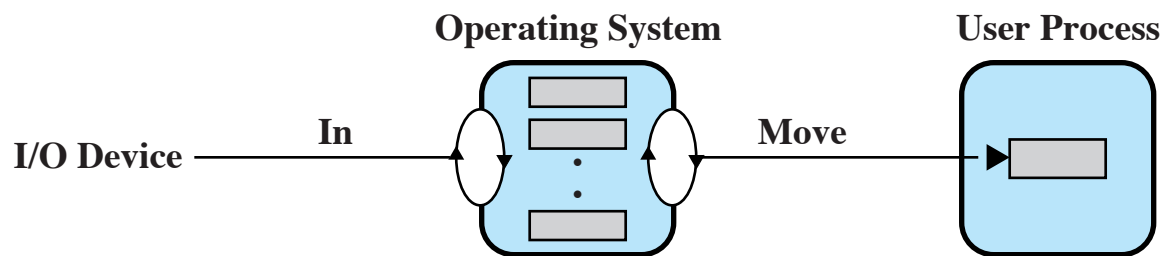**(b) Single buffering**

(c) Double buffering

(d) Circular buffering

Figure 11.5   I/O Buffering Schemes (input)