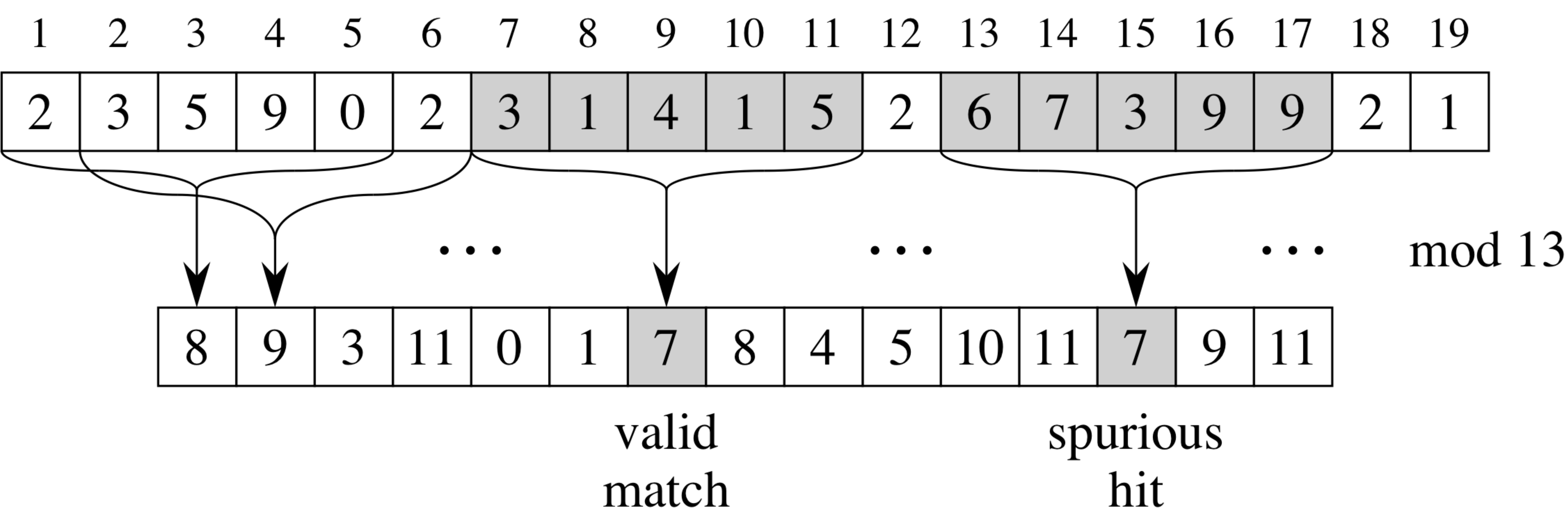
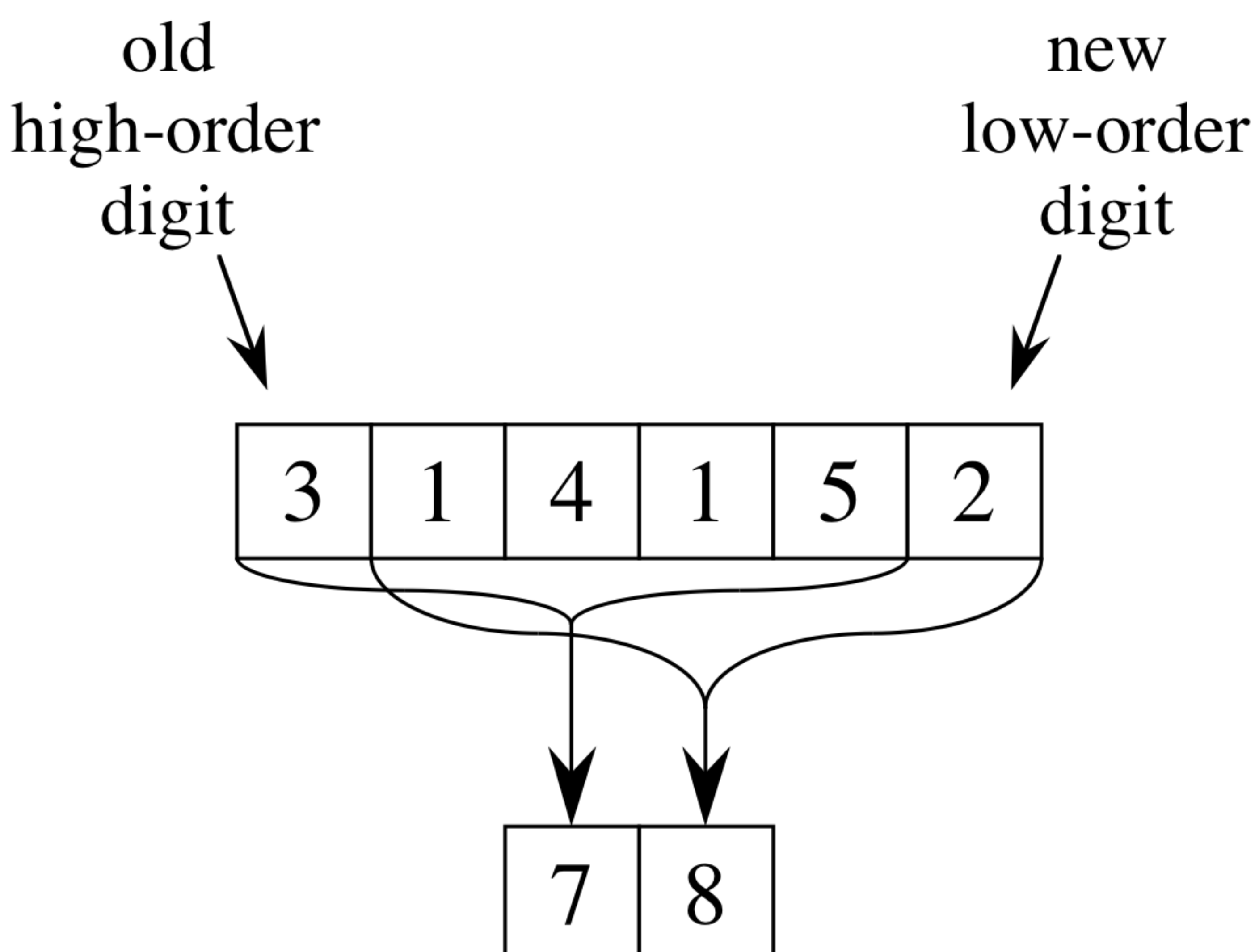


(a)



(b)



(c)

old high-order digit

shift

new low-order digit

$$\begin{aligned}
 14152 &\equiv (31415 - 3 \cdot 10000) \cdot 10 + 2 \pmod{13} \\
 &\equiv (7 - 3 \cdot 3) \cdot 10 + 2 \pmod{13} \\
 &\equiv 8 \pmod{13}
 \end{aligned}$$