

9 to base -8

$$9 = -8 \cdot -1 + 1$$

$$-1 = -8 \cdot 1 + 7$$

$$1 = -8 \cdot 0 + 1$$

$$\Rightarrow 9 = 171_{-8}$$

17 to base -8

$$17 = -8 \cdot -2 + 1$$

$$\Rightarrow 17 = 161_{-8}$$

$$-2 = -(17 \gg 3)$$

$$\downarrow -2 = -8 \cdot 1 + 6$$

$$1 = -8 \cdot 0 + 1$$

shift right 3 times and take
negative sign.