

-9 to base -2.

$$-9 = -2 \cdot 5 + 1$$

$$5 = -(9 \gg 1)$$

$$5 = -2 \cdot -2 + 1$$

$$-2 = -(5 \gg 1)$$

$$-2 = -2 \cdot 1 + 0$$

$$1 = -(2 \gg 1)$$

$$1 = -2 \cdot 0 + 1$$

$$-9 = 1011_{-2}$$

→ shift right 1 time and take
negative sign.