

Ex: 101101, result = 0000000

$$\begin{array}{r} \textcircled{1} \quad 101101 \\ \quad 000001 \\ \hline \text{bit} = 000001 \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad \text{bit} \ll 5 \\ 100000 \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad \text{result or bit} \\ 100000 \\ \text{or } 000000 \\ \hline 100000 \end{array}$$

$$\textcircled{2} \quad n \gg 1 = 010110$$

$$\begin{array}{r} \textcircled{1} \quad 010110 \\ \quad 000001 \\ \hline n \& 1 \\ 000000 \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad n \gg 1 \\ 001011 \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad \text{bit} \ll 4 \\ 000000 \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad \text{result or bit} \\ 100000 \\ 000000 \\ \hline 100000 \end{array}$$

$$\textcircled{1} \quad n \& 1$$

$$\begin{array}{r} 001011 \\ 000001 \\ \hline 000001 \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad n \gg 1 \\ 000101 \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad \text{bit} \ll 3 \\ 001000 \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad \text{result or bit} \\ 100000 \\ 001000 \\ \hline 101000 \end{array}$$

$$\textcircled{1} \quad n \& 1$$

$$\begin{array}{r} 000101 \\ 000001 \\ \hline 000001 \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad n \gg 1 \\ 000010 \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad \text{bit} \ll 2 \\ 000100 \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad \text{result or bit} \\ 101000 \\ 000100 \\ \hline 101100 \end{array}$$

①	000010	②	$n \gg 1$	③	bit < 1	④	result or bit
8	000001		000001		000000		101100
	<u>000000</u>						<u>000000</u>
							<u>101100</u>

①	000001	②	$n \gg 1$	③	bit < 0	④	result or bit
8	000001		000000		000001		101100
	<u>000001</u>						<u>000001</u>
							<u>101101</u>

101101 \longrightarrow 101101