

$$\begin{array}{r}
 2 \\
 1 \\
 \times 1 \\
 \hline
 1 \\
 1 \\
 \hline
 1 2
 \end{array}$$

$$\begin{array}{r}
 \\
 1 \\
 \times \\
 \hline
 1 \\
 1 \\
 0 \\
 1 \\
 \hline
 1
 \end{array}$$

a) Decimal

b) Binary

				a_3	a_2	a_1	a_0
			\times	b_3	b_2	b_1	b_0
				a_3b_0	a_2b_0	a_1b_0	a_0b_0
		a_3b_1		a_2b_1	a_1b_1	a_0b_1	
	a_3b_2	a_2b_2		a_1b_2	a_0b_2		
a_3b_3	a_2b_3	a_1b_3	a_0b_3				
p_7	p_6	p_5	p_4	p_3	p_2	p_1	p_0

c) Implementation