

$$A = a_3 a_2 a_1 a_0$$

برای ضرایب از $[99443333]$

پاسخ سوال ①

$$\begin{array}{r} A \times 1 \rightarrow \begin{array}{cccc} a_3 & a_2 & a_1 & a_0 \\ \times & 0 & 0 & 0 & 1 \\ \hline & a_3 & a_2 & a_1 & a_0 \\ + & & & & \\ & 0 & 0 & 0 & 0 & 0 \\ + & & & & & \\ & 0 & 0 & 0 & 0 & 0 & 0 \\ + & & & & & & \\ & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline & & & & & & a_3 & a_2 & a_1 & a_0 \end{array} \end{array}$$

$$\begin{array}{r} A \times 3 \rightarrow \begin{array}{cccc} a_3 & a_2 & a_1 & a_0 \\ \times & 0 & 0 & 1 & 1 \\ \hline & a_3 & a_2 & a_1 & a_0 \\ + & & & & \\ & 0 & 0 & 0 & 0 & 0 & 0 \\ + & & & & & \\ & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline & & & & & & a_3 & a_2 & a_1 & a_0 \\ & & & & & & + & + & + & + \\ & & & & & & c_3 & c_2 & c_1 & c_0 \\ & & & & & & 3 & 2 & 1 & 0 \\ & & & & & & + & + & + & \\ & & & & & & c_2 & c_1 & & \end{array} \end{array}$$

$$\begin{array}{r} A \times 2 \rightarrow \begin{array}{cccc} a_3 & a_2 & a_1 & a_0 \\ \times & 0 & 0 & 1 & 0 \\ \hline & 0 & 0 & 0 & 0 \\ + & & & & \\ & a_3 & a_2 & a_1 & a_0 & 0 \\ + & & & & & \\ & 0 & 0 & 0 & 0 & 0 & 0 \\ + & & & & & \\ & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline & & & & & & a_3 & a_2 & a_1 & a_0 & 0 \end{array} \end{array}$$

$$\begin{array}{r} A \times 4 \rightarrow \begin{array}{cccc} a_3 & a_2 & a_1 & a_0 \\ \times & 0 & 1 & 0 & 0 \\ \hline & 0 & 0 & 0 & 0 \\ + & & & & \\ & 0 & 0 & 0 & 0 & 0 \\ + & & & & \\ & a_3 & a_2 & a_1 & a_0 & 0 & 0 \\ + & & & & & \\ & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline & & & & & & a_3 & a_2 & a_1 & a_0 & 0 & 0 \end{array} \end{array}$$

$x \ y$	
00	$1 \times a_3 a_2 a_1 a_0$
01	$2 \times a_3 a_2 a_1 a_0$
10	$3 \times a_3 a_2 a_1 a_0$
11	$4 \times a_3 a_2 a_1 a_0$

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