

$$6 \quad \begin{array}{l} a1a1aaaa \\ \mathbf{e.g.} \pm 6, \pm 12, \pm 24, \pm 48, \cdots 2, 3, 662, 3, 6[2, 3, 6] = \end{array}$$

$$\begin{array}{l} a_1, a_2, \cdots, a_n a_1, a_2, \cdots, a_n [a_1, a_2, \cdots, a_n] \\ a_1, a_2, \cdots, a_n \\ a_1 a_2 \cdots a_n a_1, a_2, \cdots, a_n a_1, a_2, \cdots, a_n \end{array}$$

$$\begin{array}{l} [a_1, a_2, \cdots, a_n] = \\ m, [a_1, a_2, \cdots, a_n] = \end{array}$$

$$\begin{array}{l} q \\ q \quad m < \\ q [a_1, a_2, \cdots, a_n] = \end{array}$$

$$\begin{array}{l} q > \\ m [a_1, a_2, \cdots, a_n] = \end{array}$$

$$\begin{array}{l} m \\ qa_1, a_2, \cdots, a_n \\ a_1, a_2, \cdots, a_n \end{array}$$

$$\begin{array}{l} 1, a_2, \cdots, a_n] = \\ [|a_1|, |a_2|, \cdots, a_n|]. \end{array}$$

$$\begin{array}{l} [a, 1] = \\ |a|, [a, a] = \end{array}$$

$$\begin{array}{l} |a| a \neq \\ 0 \end{array}$$

$$\begin{array}{l} [a, b] = \\ [b, a] \end{array}$$

$$\begin{array}{l} a | \\ b[a, b] = \end{array}$$

$$\begin{array}{l} |b| \\ ma_1, a_2, \cdots, a_n qa_1, a_2, \cdots, a_n m = \end{array}$$

$$\begin{array}{l} [a_1, a_2, \cdots, a_n] \Leftrightarrow \\ m | \end{array}$$

$$\begin{array}{l} q \\ m q m = \\ [a_1, a_2, \cdots, a_n] m < \end{array}$$

$$\begin{array}{l} q q = \\ m x + \end{array}$$

$$\begin{array}{l} r(r < \\ m) a_k | \end{array}$$

$$\begin{array}{l} m, a_k | \\ q a_k | \end{array}$$

$$\begin{array}{l} (q - \\ m x) = \end{array}$$

$$\begin{array}{l} r(k = \\ 1, 2, \cdots, n) r a_1, a_2, \cdots, a_n r < \end{array}$$

$$\begin{array}{l} m m = \\ [a_1, a_2, \cdots, a_n] \\ [a_1, a_2, \cdots, a_n] = \end{array}$$

$$\begin{array}{l} p \neq \\ m m | \end{array}$$

$$\begin{array}{l} q p a_1, a_2, \cdots, a_n m | \\ p, m < \end{array}$$

$$\begin{array}{l} p [a_1, a_2, \cdots, a_n] = \\ p p = \end{array}$$

$$\begin{array}{l} m \\ a_p | \end{array}$$

$$\begin{array}{l} m(p = \\ 1, 2, \cdots, n) \end{array}$$

$$\begin{array}{l} 1, a_2, \cdots, a_n] \Leftrightarrow \\ \left(\frac{m}{a_1}, \frac{m}{a_2}, \cdots, \frac{m}{a_2} \right) = \end{array}$$

$$\begin{array}{l} 1 \\ .(ma_1, ma_2, \cdots, ma_2) = \end{array}$$

$$\begin{array}{l} q > \\ 1 q | \end{array}$$

$$\begin{array}{l} m a_k q a_k | \\ m a_k | \end{array}$$

$$\begin{array}{l} m q m q a_k (p = \\ 1, 2, \cdots, n) m q < \end{array}$$

$$\begin{array}{l} m m = \\ [a_1, a_2, \cdots, a_n] \end{array}$$

$$\begin{array}{l} \left(\frac{m}{a_1}, \frac{m}{a_2}, \cdots, \frac{m}{a_2} \right) = \\ 1 \end{array}$$

$$\begin{array}{l} .[a_1, a_2, \cdots, a_n] = \\ k < \end{array}$$

$$\begin{array}{l} m ?? k | \\ m m = \end{array}$$

$$\begin{array}{l} k q (q > \\ 1) a_p | \end{array}$$

$$\begin{array}{l} k(p = \\ 1, 2, \cdots, n) a_p | \end{array}$$

$$\begin{array}{l} m q q | \\ m a_p q m a_k (p = \end{array}$$

$$\begin{array}{l} 1, 2, \cdots, n) (ma_1, ma_2, \cdots, ma_2) = \\ 1 m = \\ [a_1, a_2, \cdots, a_n] \end{array}$$