

5. (cont'd)

$$A_2 A_3 A_4 A_5 A_6 : \begin{cases} \textcircled{1} A_2 \cdot \underline{A_3 A_4 A_5 A_6} \\ \textcircled{2} \underline{A_2 A_3 A_4 A_5} \cdot A_6 \\ \textcircled{3} \underline{A_2 A_3} \underline{A_4 A_5 A_6} \\ \textcircled{4} \underline{A_2 A_3 A_4} \underline{A_5 A_6} \end{cases}$$

$$\textcircled{1}: 1770 + 10 \cdot 3 \cdot 6 = 1950$$

$$\textcircled{2}: 2430$$

$$\textcircled{3}: 360 + 1860 + \dots$$

$$\textcircled{4}: 330 + 1500 + \underline{10 \cdot 5 \cdot 6} = 2130$$

$$A_1 A_2 A_3 A_4 A_5 A_6 : \begin{cases} \textcircled{1} A_1 \cdot \underline{A_2 \sim A_6} \\ \textcircled{2} \underline{A_1 \sim A_5} \cdot A_6 \\ \textcircled{3} (A_1 A_2) \cdot (A_3 \sim A_6) \\ \textcircled{4} (A_1 \sim A_4) \cdot (A_5 A_6) \\ \textcircled{5} (A_1 A_2 A_3) (A_4 A_5 A_6) \end{cases}$$

$$\begin{array}{c} \underline{A_1 A_2} \quad \underline{A_3 A_4 A_5 A_6} \\ \Downarrow \\ (A_1 A_2) (A_3 A_4 A_5 A_6) \end{array}$$

$$\textcircled{1}: 1950 + 5 \cdot 10 \cdot 6 = 2250$$

$$\textcircled{2}: 1655 + 5 \cdot 50 \cdot 6 = 3155$$

$$\textcircled{3}: 150 + 1770 + \frac{5 \cdot 3 \cdot 6}{90} = 2010$$

$$\textcircled{4}: 405 + 1500 + 5 \cdot 5 \cdot 6 = 2055$$

$$\textcircled{5}: 330 + 1860 + \dots$$

$$\Rightarrow \text{Ans: } (A_1 A_2) (A_3 A_4 A_5 A_6)$$

6.

+15

(a)

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(b)