

10.

$$\begin{bmatrix} 1 & 2 \\ 1 & 2 \end{bmatrix} \Rightarrow \begin{matrix} \text{回數} \\ 4 \end{matrix} \quad \begin{matrix} \text{和} \\ (1+2) \times 2 \times 1 \end{matrix}$$

$$\begin{bmatrix} 3 & 4 \\ 3 & 4 \\ 3 & 4 \\ 3 & 4 \end{bmatrix} \Rightarrow 8 \quad (3+4) \times 2 \times 2$$

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...

$$\begin{bmatrix} 2h+1 & 2h+2 \\ \vdots & \vdots \end{bmatrix} \Rightarrow \frac{4+4(h-1)}{4+4(h-1)} [(2h+1)+(2h+2)] \times 2 \times \left(1 + \frac{(2h+1)-1}{2}\right) \Bigg| +$$

$$A = \sum_{k=1}^{h+1} [3 + 4(k-1)] \times 2 \times k$$

$$= \sum_{k=1}^{h+1} [4k - 1] \times 2 \times k$$

$$= \sum_{k=1}^{h+1} 8k^2 - 2k$$

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$$= 8 \times \frac{(h+1)(h+2)(2h+3)}{6} - 2 \times \frac{(h+1)(h+1)}{2}$$

$$= \frac{4(h+1)(h+2)(2h+3)}{3} - (h+1)(h+1)$$

$$h=17 \quad A = \frac{4 \times 17 \times 18 \times 19}{3} - (17)(17) = 5607888 - 2942 = 5578466$$

$$h=8 \quad A = \frac{4 \times 9 \times 10 \times 19}{3} - (9)(9) = 2280 - 81 = 2199$$

$$\left. \begin{matrix} [13+1]=18 \\ [13+2]=18 \end{matrix} \right\} \begin{matrix} 2190 \\ -190 \\ \hline 2010 \end{matrix} \quad A = 1 = 339$$