

«Цікаві способи обчислень. Ведична математика»

Множення на 11

$$\begin{array}{cccc} 45 \cdot 11 = & 78 \cdot 11 = & 53 \cdot 11 = & 99 \cdot 11 = \\ \begin{array}{c} 4+5 \\ \swarrow \searrow \\ 4 \quad 5 \end{array} & \begin{array}{c} 7+8 \\ \swarrow \searrow \\ 7 \quad 8 \end{array} & \begin{array}{c} 5 \quad 3 \\ \swarrow \searrow \\ 5 \quad 3 \end{array} & \begin{array}{c} 9 \\ \swarrow \searrow \\ 9 \quad 0 \end{array} \end{array}$$

Базовий метод.

Множення чисел, близьких до 10, 100, 1000 і т.д.

$$97 \cdot 97 =$$

$$\begin{array}{r} * \begin{array}{c} 97 \\ 97 \end{array} \begin{array}{c} \diagdown \diagup \\ -03 \\ -03 \end{array} \\ \hline \end{array}$$

$$99 \cdot 96 =$$

$$\begin{array}{r} * \begin{array}{c} 99 \\ 96 \end{array} \begin{array}{c} \diagdown \diagup \\ \\ \end{array} \\ \hline 95 \end{array}$$

$$95 \cdot 94 =$$

$$\begin{array}{r} * \begin{array}{c} 95 \\ 94 \end{array} \begin{array}{c} \diagdown \diagup \\ \\ \end{array} \\ \hline \end{array}$$

$$13 \cdot 15 =$$

$$\begin{array}{r} * \begin{array}{c} 13 \\ 15 \end{array} \begin{array}{c} \diagdown \diagup \\ +3 \\ +5 \end{array} \\ \hline 15 \end{array}$$

$$13 \cdot 14 =$$

$$\begin{array}{r} * \begin{array}{c} 13 \\ 14 \end{array} \begin{array}{c} \diagdown \diagup \\ +3 \\ \end{array} \\ \hline 17 \end{array}$$

$$14 \cdot 14 =$$

$$\begin{array}{r} * \begin{array}{c} 14 \\ 14 \end{array} \begin{array}{c} \diagdown \diagup \\ +4 \\ \end{array} \\ \hline 16 \end{array}$$

$$102 \cdot 103 =$$

$$\begin{array}{r} * \begin{array}{c} 102 \\ 103 \end{array} \begin{array}{c} \diagdown \diagup \\ +02 \\ +03 \end{array} \\ \hline 105 \end{array}$$

$$101 \cdot 106 =$$

$$\begin{array}{r} * \begin{array}{c} 101 \\ 106 \end{array} \begin{array}{c} \diagdown \diagup \\ +0 \\ +0 \end{array} \\ \hline 06 \end{array}$$

$$109 \cdot 103 =$$

$$\begin{array}{r} * \begin{array}{c} 109 \\ 103 \end{array} \begin{array}{c} \diagdown \diagup \\ \\ \end{array} \\ \hline \end{array}$$

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$$996 \cdot 997 =$$

$$\begin{array}{r} * \begin{array}{c} 996 \\ 997 \end{array} \begin{array}{c} \diagdown \diagup \\ 004 \\ -003 \end{array} \\ \hline \end{array}$$

$$998 \cdot 994 =$$

$$\begin{array}{r} * \begin{array}{c} 998 \\ 994 \end{array} \begin{array}{c} \diagdown \diagup \\ \\ \end{array} \\ \hline 992 \end{array}$$

$$999 \cdot 993 =$$

$$\begin{array}{r} * \begin{array}{c} 999 \\ 993 \end{array} \begin{array}{c} \diagdown \diagup \\ \\ \end{array} \\ \hline \end{array}$$

Піднесення до квадрату чисел від 1 до 10

$$a^2 = a \cdot a \quad 4^2 = 4 \cdot 4 = 16 \quad 8^2 = 8 \cdot 8 = 64$$

$$3^2 = 3 \cdot 3 = 9 \quad 6^2 = 6 \cdot 6 = 36 \quad 10^2 = 10 \cdot 10 = 100$$

Піднесення до квадрату чисел від 11 до 99

$a^2 = a \cdot a$

Піраміда

0				
1				
2	1			
		1		
			1	
				1

$$13^2 = 13 \cdot 13 =$$

$$13^2 = \begin{array}{r} 139 \\ + \quad 3 \\ \hline 169 \end{array}$$

$$23^2 = 23 \cdot 23 =$$

$$23^2 = \begin{array}{r} 469 \\ + \quad 2 \\ \hline 529 \end{array}$$

$$41^2 = 41 \cdot 41 =$$

$$41^2 = \begin{array}{r} 16 \\ \hline \end{array}$$

$$57^2 = 57 \cdot 57 =$$

$$57^2 = \begin{array}{r} 253549 \\ + \quad 9 \\ \hline \end{array}$$

c g o

$$87^2 = 87 \cdot 87 =$$

$$87^2 = \begin{array}{r} 6456 \\ + \quad 8 \\ \hline \end{array}$$

c g o

Дякую за роботу!

Ти - молодець!

