$$\begin{pmatrix} c \\ c \end{pmatrix} + \begin{pmatrix} c \\ c \\ c \end{pmatrix} = \begin{pmatrix} c \\ c \\ c \\ c \end{pmatrix}$$

$$\frac{16}{4}$$
 $\left(\begin{array}{c} 16\\5 \end{array}\right)$

$$N = 16$$
 $N+1 = 17$ (17) ANSWER 5

$$= \begin{pmatrix} 11 \\ 5 \end{pmatrix} \qquad \begin{array}{c} 0 = 10 & 0 + 1 = 11 \\ \hline 5 & -10 & -11 = 5 \end{array}$$

$$\frac{14}{10}$$
 + $\begin{pmatrix} 14\\11 \end{pmatrix}$ + $\begin{pmatrix} 15\\12 \end{pmatrix}$

$$= \left(\begin{array}{c} 15 \\ 11 \end{array}\right) + \left(\begin{array}{c} 15 \\ 12 \end{array}\right)$$

$$\begin{array}{c} * \\ \begin{pmatrix} 20 \\ 15 \end{pmatrix} + \begin{pmatrix} 20 \\ 16 \end{pmatrix} + \begin{pmatrix} 21 \\ 17 \end{pmatrix} + \begin{pmatrix} 22 \\ 18 \end{pmatrix} \end{array}$$

$$= {21 \choose 16} + {21 \choose 17} + {22 \choose 18}$$

$$= \begin{pmatrix} 22 \\ 17 \end{pmatrix} + \begin{pmatrix} 22 \\ 18 \end{pmatrix}$$

$$\begin{array}{c} * \\ & \begin{pmatrix} 91 \\ 13 \end{pmatrix} - \begin{pmatrix} 90 \\ 13 \end{pmatrix} \end{array}$$

$$\begin{pmatrix} L+1 \\ L+1 \end{pmatrix} - \begin{pmatrix} L+1 \\ L \end{pmatrix} = \begin{pmatrix} L \\ L \end{pmatrix}$$

ANSWER =
$$\begin{pmatrix} 90 \\ 12 \end{pmatrix}$$