

caso de 4

$$\left\{ \begin{array}{l} x_1 + \dots + x_4 = 31 \rightarrow x_1 + \dots + x_4 = 1 \quad | \cdot x^3 \\ x_1 \geq 10 \wedge x_2 \geq 10 \wedge x_3 \geq 10 \end{array} \right.$$

$$x_1 \geq 10 \wedge x_2 \geq 10 \wedge x_3 \geq 10$$

$$\left\{ \begin{array}{l} x_1 + \dots + x_4 = 31 \rightarrow x_1 + \dots + x_4 = 0 \quad 0 \\ x_1 \geq 1 \wedge x_2 \geq 10 \wedge x_3 \geq 10 \wedge x_4 \geq 10 \end{array} \right.$$

$$x_1 \geq 1 \wedge x_2 \geq 10 \wedge x_3 \geq 10 \wedge x_4 \geq 10$$

caso de 5

$$\left\{ \begin{array}{l} x_1 + \dots + x_5 = 31 \rightarrow x_1 + \dots + x_5 = 1 \quad | \cdot C_2^4 \\ x_1 \geq 10 \wedge x_2 \geq 10 \wedge x_3 \geq 10 \end{array} \right.$$

$$x_1 \geq 10 \wedge x_2 \geq 10 \wedge x_3 \geq 10$$

0

caso de 6

$$C_2^5$$

caso de 7

$$C_2^6$$

$$N(C_j, C_j, C_k)$$

$$N = CR_{30}^4 + CR_{30}^5 + CR_{30}^6 + CR_{30}^7$$

$$S_1 = CR_{21}^4 + CR_{20}^4 + CR_{21}^5 + 4CR_{20}^5 + CR_{21}^6 + 5 \cdot CR_{20}^6 + CR_{21}^7 + 6 \cdot CR_{21}^4$$

$$S_2 = 3 \cdot CR_{11}^4 + 3 \cdot CR_{10}^4 + 4 \cdot CR_{11}^5 + C_2^4 \cdot CR_{10}^5 + 5 \cdot CR_{11}^6 + C_2^5 \cdot CR_{10}^6 + 6 \cdot CR_{11}^7 + C_2^6 \cdot CR_{10}^7$$

$$S_3 = 3 + C_2^4 + C_2^5 + C_2^6$$