

$$15 \cdot 14 \cdot 13 \cdot 12 \cdot 11 \cdot 10 \cdot 9$$

$$15! = 1.3 \cdot 10^{12}$$

$$N!$$

15 rooms each $A = 1$

all are connected $K = 15$

Shielded $L = 1$ $R = 15$

$$15!$$

$$2^N$$

$$2^{15} \approx 30.000$$

$$\textcircled{1} \quad 1$$

$$\textcircled{2} \quad 1$$

$$2^N \cdot N^2 = 7.3 \cdot 10^6$$

$$\textcircled{3} \quad 1$$

$$\textcircled{1,2} \quad \begin{array}{l} \nwarrow \textcircled{1} \quad 1 \\ \nearrow \textcircled{2} \quad 1 \end{array}$$

$$\textcircled{1,2,3} \quad \begin{array}{l} \nwarrow \textcircled{2,3} \\ \nearrow \textcircled{1,3} \\ \nearrow \textcircled{1,2} \end{array}$$