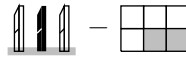


Zu welcher Spielklasse gehört das folgende Spiel (Toppling Dominoes – Domineering):

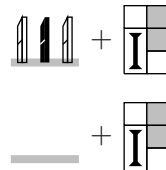


**Lösung:**

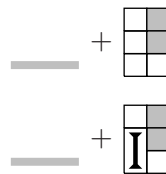
$$\begin{array}{|c|} \hline \text{white} \\ \hline \text{black} \\ \hline \text{white} \\ \hline \end{array} - \begin{array}{|c|c|} \hline \text{white} & \text{white} \\ \hline \text{white} & \text{grey} \\ \hline \end{array} = \begin{array}{|c|} \hline \text{white} \\ \hline \text{black} \\ \hline \text{white} \\ \hline \end{array} + \begin{array}{|c|c|} \hline \text{white} & \text{grey} \\ \hline \text{white} & \text{white} \\ \hline \end{array} \in \mathcal{P}$$

1.) Wir beweisen, dass stets der nachziehende gewinnt

Links beginnt



Rechts beginnt



2.) Alternativ kann auch gezeigt werden, dass der Wert des Spieles 0 ist:

$$\begin{array}{|c|} \hline \text{white} \\ \hline \text{black} \\ \hline \text{white} \\ \hline \end{array} + \begin{array}{|c|c|} \hline \text{white} & \text{grey} \\ \hline \text{white} & \text{white} \\ \hline \end{array} = \left\{ \begin{array}{|c|} \hline \text{white} \\ \hline \text{grey} \\ \hline \end{array} \mid \begin{array}{|c|} \hline \text{white} \\ \hline \text{white} \\ \hline \end{array} \right\} + \left\{ \begin{array}{|c|c|} \hline \text{white} & \text{grey} \\ \hline \text{white} & \text{white} \\ \hline \end{array} \parallel \begin{array}{|c|c|} \hline \text{white} & \text{grey} \\ \hline \text{white} & \text{white} \\ \hline \end{array} \right\} = -\frac{1}{2} + \frac{1}{2} = 0$$