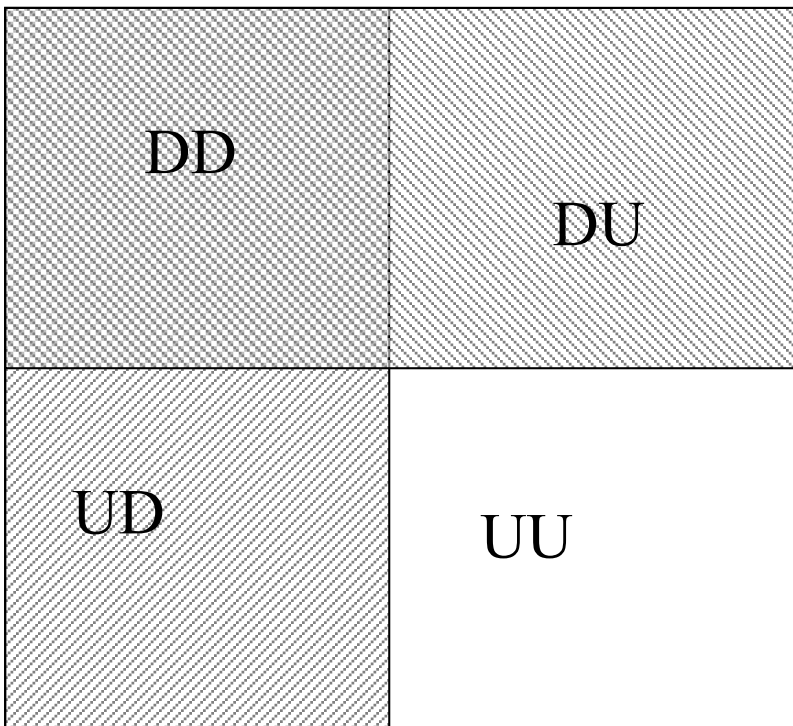


$$\begin{aligned}\Pr\{DD \cup UD \cup DU\} &= \Pr\{(DD \cup UD) \cup (DD \cup DU)\} \\ &= \Pr\{DD \cup UD\} + \Pr\{DD \cup DU\} - \Pr\{(DD \cup UD) \cap (DD \cup DU)\}\end{aligned}$$



$$(DD \cup UD) \cap (DD \cup DU) = DD$$