```
% !TEX encoding = UTF-8 Unicode
% !TEX program = pdflatex
\documentclass{article}
    \usepackage{tikz}
\begin{document}
    \begin{tikzpicture}
        \foreach \x in {1, 2, 3, 4, 5, 6, 7, 8}{
            \foreach \y in {1, 2, 3, 4, 5, 6, 7, 8}{
                \pgfmathtruncatemacro\xplusymodtwo{mod(\x + \y, 2)}
                \ifnum\xplusymodtwo = 1
                    \fill [black!66!yellow] (\x, \y) rectangle (\x+1, \y+1);
                \fi
            }
        }
    \end{tikzpicture}
\end{document}
```