

$$\begin{array}{c}
 p_1 \\
 p_2 \\
 p_3 \\
 p_4
 \end{array}
 \begin{pmatrix}
 \textit{lib1} & \textit{lib2} & \textit{lib3} & \textit{lib4} & \textit{lib5} \\
 1 & 1 & 0 & 0 & 0 \\
 1 & 0 & 1 & 0 & 0 \\
 1 & 0 & 1 & 1 & 1 \\
 1 & 1 & 0 & 1 & 1
 \end{pmatrix}$$