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## Bob's reconstruction matrices

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**Bits received**

$|00\rangle$

$|01\rangle$

$|10\rangle$

$|11\rangle$

**Matrix to apply**

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 1 \\ -1 & 0 \end{bmatrix}$$

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