Step-1

Suppose A is an invertible matrix and exchange the first two rows of the matrix A.

Now we have to verify whether the new matrix is invertible or not.

Step-2

Let the matrix $A=\begin{bmatrix}1 & 0 & 0\\ 0 & 1 & 0\\ 0 & 0 & 1\end{bmatrix}$

Then A is invertible.

Now the exchange the first rows of A, we get a new matrix B as

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

It is clear that B is also invertible since B is a permutation matrix and that have an inverse.

Step-3

Now we have to explain how we find B^{-1} from A^{-1}.

We got B by exchanging the first two rows of A.

So B^{-1} is obtained by exchanging the first two columns of A^{-1}.