## Motivation of Feistel Cipher

In block Cipher, n bit of plaintent-Produce n bit of Cipher tent.

2" Combination of Encryption Reversible

n=2 => 4 Combination

Reversible Mapping

 $\begin{array}{ccc}
P & C \\
00 & \longrightarrow 11 \\
01 & \longrightarrow 10 \\
10 & \longrightarrow 00 \\
11 & \longrightarrow 01
\end{array}$ 

Irreversible Mapping

 $\begin{array}{cccc}
P & C \\
00 & \longrightarrow 11 \\
01 & \longrightarrow 10
\end{array}$   $\begin{array}{ccccc}
10 & \longrightarrow 01 \\
11 & \longrightarrow 01
\end{array}$