$$
\begin{array}{ccccccccc}
A: \cdots & \longrightarrow & X_{n+1} & \xrightarrow{d^{\mathbf{X}^\bullet}_{n+1}} & X_n & \xrightarrow{d^{\mathbf{X}^\bullet}_n} & X_{n-1} & \longrightarrow & \cdots \\
& & \downarrow{\scriptstyle f_{n+1}} & & \downarrow{\scriptstyle f_n} & & \downarrow{\scriptstyle f_{n-1}} & & \\
f\downarrow & & & & & & & & \\
B: \cdots & \longrightarrow & Y_{n+1} & \xrightarrow[d^{\mathbf{Y}^\bullet}_{n+1}]{} & Y_n & \xrightarrow[d^{\mathbf{Y}^\bullet}_n]{} & Y_{n-1} & \longrightarrow & \cdots
\end{array}
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