

$$\begin{array}{ccccc}
 & & 0 & & 0 \\
 & & \searrow & & \nearrow \\
 & & C_{n+1} & & \\
 & \nearrow & & \searrow & \\
 \cdots & \longrightarrow & A_{n+2} & \longrightarrow & A_{n+1}
 \end{array}$$