

$$\begin{array}{ccc}
 \text{vec } n & \xleftarrow{\text{truncate}} & \text{vec } (n + 1) \\
 \downarrow f \ n & & \downarrow f \ (n + 1) \\
 \text{vec } n & \xleftarrow{\text{truncate}} & \text{vec } (n + 1)
 \end{array}$$