$$
\begin{tikzcd}
 & {[5,6,7,8,9]} \arrow[dl, "\mathsf{scanl}\ (*)\ 1"'] \arrow[dr, "\mathsf{foldl}\ (\otimes)\ \langle 0{+}1, 1\rangle"] & \\
{[1, 1{*}5, (1{*}5){*}6, ((1{*}5){*}6){*}7, (((1{*}5){*}6){*}7){*}8, ((((1{*}5){*}6){*}7){*}8){*}9]} \arrow[dr, "\mathsf{foldl}\ (+)\ 0"'] & & \begin{array}{c} (((((\langle 0{+}1, 1\rangle \otimes 5) \otimes 6) \otimes 7) \otimes 8) \otimes 9 \\ = \\ \langle ((((((0{+}1){+}1{*}5){+}(1{*}5){*}6){+}((1{*}5){*}6){*}7){+}(((1{*}5){*}6){*}7){*}8){+}((((1{*}5){*}6){*}7){*}8){*}9, ((((1{*}5){*}6){*}7){*}8){*}9\rangle \end{array} \arrow[dl, "\mathsf{fst}"] \\
 & {(((((0+1)+1{*}5)+(1{*}5){*}6)+((1{*}5){*}6){*}7)+(((1{*}5){*}6){*}7){*}8)+((((1{*}5){*}6){*}7){*}8){*}9} &
\end{tikzcd}
$$

where $\langle u, v\rangle \otimes x$
is defined as
let $w = v * x$
in $\langle u + w, w\rangle$