

input
 $\begin{array}{c|c|c} 1 & 0 & 1 \\ \hline \uparrow & \uparrow & \uparrow \\ \text{walk} & \text{s} & \text{w} \end{array}$

output
 $\begin{array}{c|c|c|c|c|c} 1 & 0 & 0 & 0 & 1 & 1 & 0 & 0 \\ \hline \text{R} & \text{G} & \text{R} & \text{Y} & \text{G} & \text{R} & \text{Y} & \text{G} \\ \hline \text{walk} & \text{s} & & & & \text{w} & & \end{array}$

