

$$\begin{array}{ccc}
 ((b \diamond c) \diamond d) \diamond e & \longrightarrow & (b \diamond (c \diamond d)) \diamond e \longrightarrow b \diamond ((c \diamond d) \diamond e) \\
 \downarrow & & \downarrow \\
 (b \diamond d) \diamond (d \diamond e) & \longrightarrow & b \diamond (c \diamond (d \diamond e))
 \end{array}
 \qquad
 \begin{array}{ccc}
 (c \diamond I) \diamond d & \longrightarrow & c \diamond (I \diamond d) \\
 & \searrow & \swarrow \\
 & c \diamond d &
 \end{array}$$