

$$\begin{aligned} &> \text{solve}(p \text{ C } p2 \text{ C } p3 = (2 \text{ q C } 1) \$ (2 \text{ w C } 1)) \\ &\quad \{p = 4 \text{ q w K } p2 \text{ K } p3 \text{ C } 2 \text{ q C } 2 \text{ w C } 1, p2 = p2, p3 = p3, q = q, w = w\} \end{aligned} \quad (1)$$

$$\begin{aligned} &> \text{subs}(p = 4 \text{ q w K } p2 \text{ K } p3 \text{ C } 2 \text{ q C } 2 \text{ w C } 1, p \text{ C } p2 \text{ C } p4 = (2 \text{ e C } 1) \$ (2 \text{ r C } 1)) \\ &\quad 4 \text{ q w K } p3 \text{ C } p4 \text{ C } 2 \text{ q C } 2 \text{ w C } 1 = (2 \text{ e C } 1) (2 \text{ r C } 1) \end{aligned} \quad (2)$$

$$\begin{aligned} &> \text{solve}(4 \text{ q w K } p3 \text{ C } p4 \text{ C } 2 \text{ q C } 2 \text{ w C } 1 = (2 \text{ e C } 1) (2 \text{ r C } 1)) \\ &\quad \{e = e, p3 = 4 \text{ e r C } 4 \text{ q w K } 2 \text{ e C } p4 \text{ C } 2 \text{ q K } 2 \text{ r C } 2 \text{ w}, p4 = p4, q = q, r = r, w = w\} \end{aligned} \quad (3)$$

$$\begin{aligned} &> \text{subs}(p = 4 \text{ q w K } p2 \text{ K } p3 \text{ C } 2 \text{ q C } 2 \text{ w C } 1, p3 = 4 \text{ e r C } 4 \text{ q w K } 2 \text{ e C } p4 \text{ C } 2 \text{ q K } 2 \text{ r C } 2 \text{ w}, p \\ &\quad \text{C } p3 \text{ C } p4 = (2 \text{ t C } 1) \$ (2 \text{ u C } 1)) \\ &\quad 4 \text{ q w K } p2 \text{ C } p4 \text{ C } 2 \text{ q C } 2 \text{ w C } 1 = (2 \text{ t C } 1) (2 \text{ u C } 1) \end{aligned} \quad (4)$$

$$\begin{aligned} &> \text{solve}(4 \text{ q w K } p2 \text{ C } p4 \text{ C } 2 \text{ q C } 2 \text{ w C } 1 = (2 \text{ t C } 1) (2 \text{ u C } 1)) \\ &\quad \{p2 = 4 \text{ q w K } 4 \text{ t u C } p4 \text{ C } 2 \text{ q K } 2 \text{ t K } 2 \text{ u C } 2 \text{ w}, p4 = p4, q = q, t = t, u = u, w = w\} \end{aligned} \quad (5)$$

$$\begin{aligned} &> \text{subs}(p = 4 \text{ q w K } p2 \text{ K } p3 \text{ C } 2 \text{ q C } 2 \text{ w C } 1, p3 = 4 \text{ e r C } 4 \text{ q w K } 2 \text{ e C } p4 \text{ C } 2 \text{ q K } 2 \text{ r C } 2 \text{ w}, p2 \\ &\quad = 4 \text{ q w K } 4 \text{ t u C } p4 \text{ C } 2 \text{ q K } 2 \text{ t K } 2 \text{ u C } 2 \text{ w}) \\ &\quad p2 = 4 \text{ q w K } 4 \text{ t u C } p4 \text{ C } 2 \text{ q K } 2 \text{ t K } 2 \text{ u C } 2 \text{ w} \end{aligned} \quad (6)$$

$$\begin{aligned} &> \text{solve}(p2 \text{ C } p3 \text{ C } p4 = (2 \text{ i C } 1) \$ (2 \text{ o C } 1), p4) \\ &\quad 4 \text{ i o C } 2 \text{ i C } 2 \text{ o K } p2 \text{ K } p3 \text{ C } 1 \end{aligned} \quad (7)$$

$$\begin{aligned} &> \text{subs}(p2 = 4 \text{ q w K } 4 \text{ t u C } p4 \text{ C } 2 \text{ q K } 2 \text{ t K } 2 \text{ u C } 2 \text{ w}, p3 = 4 \text{ e r C } 4 \text{ q w K } 2 \text{ e C } p4 \text{ C } 2 \text{ q} \\ &\quad \text{K } 2 \text{ r C } 2 \text{ w}, p4 = 4 \text{ i o C } 2 \text{ i C } 2 \text{ o K } p2 \text{ K } p3 \text{ C } 1) \\ &\quad p4 = 4 \text{ e r C } 4 \text{ i o K } 8 \text{ q w C } 4 \text{ t u C } 2 \text{ e C } 2 \text{ i C } 2 \text{ o K } 2 \text{ p4 K } 4 \text{ q C } 2 \text{ r C } 2 \text{ t C } 2 \text{ u K } 4 \text{ w C } 1 \end{aligned} \quad (8)$$

$$\begin{aligned} &> \text{solve}(p4 = 4 \text{ e r C } 4 \text{ i o K } 8 \text{ q w C } 4 \text{ t u C } 2 \text{ e C } 2 \text{ i C } 2 \text{ o K } 2 \text{ p4 K } 4 \text{ q C } 2 \text{ r C } 2 \text{ t C } 2 \text{ u K } 4 \text{ w} \\ &\quad \text{C } 1) \\ &\quad \left\{ e = e, i = i, o = o, p4 = \frac{4}{3} \text{ e r C } \frac{4}{3} \text{ i o K } \frac{8}{3} \text{ q w C } \frac{4}{3} \text{ t u C } \frac{2}{3} \text{ e C } \frac{2}{3} \text{ i C } \frac{2}{3} \text{ o K } \frac{4}{3} \text{ q C } \frac{2}{3} \text{ r} \right. \\ &\quad \left. \text{C } \frac{2}{3} \text{ t C } \frac{2}{3} \text{ u K } \frac{4}{3} \text{ w C } \frac{1}{3}, q = q, r = r, t = t, u = u, w = w \right\} \end{aligned} \quad (9)$$

$$\begin{aligned} &> \text{solve}\left(\text{subs}\left(p4 = \frac{4}{3} \text{ e r C } \frac{4}{3} \text{ i o K } \frac{8}{3} \text{ q w C } \frac{4}{3} \text{ t u C } \frac{2}{3} \text{ e C } \frac{2}{3} \text{ i C } \frac{2}{3} \text{ o K } \frac{4}{3} \text{ q C } \frac{2}{3} \text{ r} \right. \right. \\ &\quad \left. \left. \text{C } \frac{2}{3} \text{ t C } \frac{2}{3} \text{ u K } \frac{4}{3} \text{ w C } \frac{1}{3}, p2 = 4 \text{ q w K } 4 \text{ t u C } p4 \text{ C } 2 \text{ q K } 2 \text{ t K } 2 \text{ u C } 2 \text{ w}\right)\right) \\ &\quad \left\{ e = e, i = i, o = o, p2 = \frac{4}{3} \text{ q w K } \frac{8}{3} \text{ t u C } \frac{4}{3} \text{ e r C } \frac{4}{3} \text{ i o C } \frac{2}{3} \text{ e C } \frac{2}{3} \text{ i C } \frac{2}{3} \text{ o C } \frac{2}{3} \text{ q C } \frac{2}{3} \text{ r} \right. \\ &\quad \left. \text{K } \frac{4}{3} \text{ t K } \frac{4}{3} \text{ u C } \frac{2}{3} \text{ w C } \frac{1}{3}, q = q, r = r, t = t, u = u, w = w \right\} \end{aligned} \quad (10)$$

$$\begin{aligned} &> \text{subs}\left(p4 = \frac{4}{3} \text{ e r C } \frac{4}{3} \text{ i o K } \frac{8}{3} \text{ q w C } \frac{4}{3} \text{ t u C } \frac{2}{3} \text{ e C } \frac{2}{3} \text{ i C } \frac{2}{3} \text{ o K } \frac{4}{3} \text{ q C } \frac{2}{3} \text{ r C } \frac{2}{3} \text{ t} \right. \\ &\quad \left. \text{C } \frac{2}{3} \text{ u K } \frac{4}{3} \text{ w C } \frac{1}{3}, p3 = 4 \text{ e r C } 4 \text{ q w K } 2 \text{ e C } p4 \text{ C } 2 \text{ q K } 2 \text{ r C } 2 \text{ w}\right) \\ &\quad p3 = 4 \frac{8}{3} \text{ e r C } \frac{4}{3} \text{ q w K } \frac{4}{3} \text{ e C } \frac{4}{3} \text{ i o C } \frac{4}{3} \text{ t u C } \frac{2}{3} \text{ i C } \frac{2}{3} \text{ o C } \frac{2}{3} \text{ q K } \frac{4}{3} \text{ r C } \frac{2}{3} \text{ t C } \frac{2}{3} \text{ u} \\ &\quad \text{C } \frac{2}{3} \text{ w C } \frac{1}{3} \end{aligned} \quad (11)$$

$$\begin{aligned} &> \text{subs}\left(p2 = \frac{4}{3} \text{ q w K } \frac{8}{3} \text{ t u C } \frac{4}{3} \text{ e r C } \frac{4}{3} \text{ i o C } \frac{2}{3} \text{ e C } \frac{2}{3} \text{ i C } \frac{2}{3} \text{ o C } \frac{2}{3} \text{ q C } \frac{2}{3} \text{ r K } \frac{4}{3} \text{ t} \right. \\ &\quad \left. \text{K } \frac{4}{3} \text{ u C } \frac{2}{3} \text{ w C } \frac{1}{3}, p3 = 4 \frac{8}{3} \text{ e r C } \frac{4}{3} \text{ q w K } \frac{4}{3} \text{ e C } \frac{4}{3} \text{ i o C } \frac{4}{3} \text{ t u C } \frac{2}{3} \text{ i C } \frac{2}{3} \text{ o} \right. \end{aligned}$$

$$\begin{aligned}
 & \left(C \frac{2}{3} q K \frac{4}{3} r C \frac{2}{3} t C \frac{2}{3} u C \frac{2}{3} w C \frac{1}{3}, p = 4 q w K p^2 K p^3 C^2 q C^2 w C^1 \right) \\
 p = & \frac{4}{3} i C \frac{2}{3} t C \frac{2}{3} r C \frac{2}{3} u C \frac{2}{3} q K \frac{8}{3} i o C \frac{2}{3} w C \frac{4}{3} q w C \frac{2}{3} e C \frac{1}{3} C \frac{4}{3} t u \\
 & C \frac{4}{3} e r K \frac{4}{3} o
 \end{aligned} \tag{12}$$

$$\begin{aligned}
 & > p \text{ d } \frac{4}{3} i C \frac{2}{3} t C \frac{2}{3} r C \frac{2}{3} u C \frac{2}{3} q C \frac{2}{3} w C \frac{4}{3} t u C \frac{4}{3} q w C \frac{4}{3} e r C \frac{2}{3} e C \frac{1}{3} \\
 & \quad K \frac{4}{3} o K \frac{8}{3} i o \\
 p \text{ d } & \frac{4}{3} i C \frac{2}{3} t C \frac{2}{3} r C \frac{2}{3} u C \frac{2}{3} q K \frac{8}{3} i o C \frac{2}{3} w C \frac{4}{3} q w C \frac{2}{3} e C \frac{1}{3} C \frac{4}{3} t u \\
 & C \frac{4}{3} e r K \frac{4}{3} o
 \end{aligned} \tag{13}$$

$$\begin{aligned}
 & > p^2 \text{ d } \frac{4}{3} q w K \frac{8}{3} t u C \frac{4}{3} e r C \frac{4}{3} i o C \frac{2}{3} e C \frac{2}{3} i C \frac{2}{3} o C \frac{2}{3} q C \frac{2}{3} r K \frac{4}{3} t K \frac{4}{3} u \\
 & \quad C \frac{2}{3} w C \frac{1}{3} \\
 p^2 \text{ d } & \frac{4}{3} q w K \frac{8}{3} t u C \frac{4}{3} e r C \frac{4}{3} i o C \frac{2}{3} e C \frac{2}{3} i C \frac{2}{3} o C \frac{2}{3} q C \frac{2}{3} r K \frac{4}{3} t K \frac{4}{3} u \\
 & C \frac{2}{3} w C \frac{1}{3}
 \end{aligned} \tag{14}$$

$$\begin{aligned}
 & > p^3 \text{ d } \frac{8}{3} e r C \frac{4}{3} q w K \frac{4}{3} e C \frac{4}{3} i o C \frac{4}{3} t u C \frac{2}{3} i C \frac{2}{3} o C \frac{2}{3} q K \frac{4}{3} r C \frac{2}{3} t C \frac{2}{3} u \\
 & \quad C \frac{2}{3} w C \frac{1}{3} \\
 p^3 \text{ d } & \frac{8}{3} e r C \frac{4}{3} q w K \frac{4}{3} e C \frac{4}{3} i o C \frac{4}{3} t u C \frac{2}{3} i C \frac{2}{3} o C \frac{2}{3} q K \frac{4}{3} r C \frac{2}{3} t C \frac{2}{3} u \\
 & C \frac{2}{3} w C \frac{1}{3}
 \end{aligned} \tag{15}$$

$$\begin{aligned}
 & > p^4 \text{ d } \frac{4}{3} e r C \frac{4}{3} i o K \frac{8}{3} q w C \frac{4}{3} t u C \frac{2}{3} e C \frac{2}{3} i C \frac{2}{3} o K \frac{4}{3} q C \frac{2}{3} r C \frac{2}{3} t C \frac{2}{3} u \\
 & \quad K \frac{4}{3} w C \frac{1}{3} \\
 p^4 \text{ d } & \frac{4}{3} e r C \frac{4}{3} i o K \frac{8}{3} q w C \frac{4}{3} t u C \frac{2}{3} e C \frac{2}{3} i C \frac{2}{3} o K \frac{4}{3} q C \frac{2}{3} r C \frac{2}{3} t C \frac{2}{3} u \\
 & K \frac{4}{3} w C \frac{1}{3}
 \end{aligned} \tag{16}$$

$$\begin{aligned}
 & > \text{factor}(p \text{ C } p^2 \text{ C } p^3) \\
 & \quad (2 q C^1) (2 w C^1)
 \end{aligned} \tag{17}$$

$$\begin{aligned}
 & > \text{factor}(p \text{ C } p^2 \text{ C } p^4) \\
 & \quad (2 e C^1) (2 r C^1)
 \end{aligned} \tag{18}$$

$$\begin{aligned}
 & > \text{factor}(p \text{ C } p^3 \text{ C } p^4) \\
 & \quad (2 t C^1) (2 u C^1)
 \end{aligned} \tag{19}$$

$$> \text{factor}(p^2 \text{ C } p^3 \text{ C } p^4)$$

(20)

Warning, returning only the first 100 solutions, increase MaxSols to see more solutions

$$\left\{ q=q, e ! \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)}, i ! \right. \quad (21)$$

$$\left. \begin{aligned} & \left\{ \frac{K4tuC4oK2tK2uC1}{4(2oC1)}, o ! \frac{1}{2}, r ! \frac{1}{2}, t ! \frac{1}{2}, u ! \frac{1}{2}, w ! \frac{1}{2}, \right. \\ & \left. \frac{K2tuCoKtKu}{2oC1} ! i \right\}, \left\{ e=e, r=\frac{1}{2}, i ! \frac{K4tuC4oK2tK2uC1}{4(2oC1)}, o ! \right. \\ & \left. \frac{1}{2}, q ! \frac{4ioK2tuC2iC2oKtKuKw}{2wC1}, t ! \frac{1}{2}, u ! \frac{1}{2}, w ! \frac{1}{2}, \right. \\ & \left. \frac{K2tuCoKtKu}{2oC1} ! i \right\}, \left\{ q=q, \frac{1}{2} ! r, i ! \frac{K4tuC4oK2tK2uC1}{4(2oC1)}, o ! \right. \\ & \left. \frac{1}{2}, t ! \frac{1}{2}, u ! \frac{1}{2}, w ! \frac{1}{2}, \frac{K2tuCoKtKu}{2oC1} ! i, \right. \\ & \left. \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)} ! e \right\}, \left\{ q=q, w= \right. \\ & \left. \frac{1}{2}, e ! \frac{4ioK2tuC2iC2oKrKtKu}{2rC1}, i ! \frac{K4tuC4oK2tK2uC1}{4(2oC1)}, o ! \right. \\ & \left. \frac{1}{2}, r ! \frac{1}{2}, t ! \frac{1}{2}, u ! \frac{1}{2}, \frac{K2tuCoKtKu}{2oC1} ! i \right\}, \left\{ q=q, w=\frac{1}{2}, \frac{1}{2} \right. \\ & \left. ! r, i ! \frac{K4tuC4oK2tK2uC1}{4(2oC1)}, o ! \frac{1}{2}, t ! \frac{1}{2}, u ! \frac{1}{2}, \right. \\ & \left. \frac{4ioK2tuC2iC2oKrKtKu}{2rC1} ! e, \frac{K2tuCoKtKu}{2oC1} ! i \right\}, \left\{ q=q, \frac{1}{2} ! w, e \right. \\ & \left. ! \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)}, i ! \right. \\ & \left. \frac{K4tuC4oK2tK2uC1}{4(2oC1)}, o ! \frac{1}{2}, r ! \frac{1}{2}, t ! \frac{1}{2}, u ! \frac{1}{2}, \right. \\ & \left. \frac{K2tuCoKtKu}{2oC1} ! i \right\}, \left\{ e=e, r=\frac{1}{2}, \frac{1}{2} ! w, i ! \right. \\ & \left. \frac{K4tuC4oK2tK2uC1}{4(2oC1)}, o ! \frac{1}{2}, t ! \frac{1}{2}, u ! \frac{1}{2}, \right. \\ & \left. \frac{4ioK2tuC2iC2oKtKuKw}{2wC1} ! q, \frac{K2tuCoKtKu}{2oC1} ! i \right\}, \left\{ q=q, \frac{1}{2} ! r, \right. \\ & \left. \frac{1}{2} ! w, i ! \frac{K4tuC4oK2tK2uC1}{4(2oC1)}, o ! \frac{1}{2}, t ! \frac{1}{2}, u ! \frac{1}{2}, \right. \\ & \left. \frac{K2tuCoKtKu}{2oC1} ! i, \right. \\ & \left. \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)} ! e \right\}, \left\{ i= \right. \end{aligned}$$

$$\begin{aligned}
& \mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)}, q=q, e ! \mathfrak{k} \frac{2qwCqCrCwC1}{2rC1}, o ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, t \\
& ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ e=e, i=\mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)}, r=\mathfrak{k} \frac{1}{2}, o ! \right. \\
& \mathfrak{k} \frac{1}{2}, q ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ i=\mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)}, q \right. \\
& =q, \mathfrak{k} \frac{1}{2} ! r, o ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2qwCqCrCwC1}{2rC1} ! e \}, \left\{ i \right. \\
& =\mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)}, q=q, w=\mathfrak{k} \frac{1}{2}, e ! \mathfrak{k} \frac{1}{2}, o ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, t ! \\
& \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2} \}, \left\{ i=\mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)}, q=q, w=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! e, \mathfrak{k} \frac{1}{2} ! r, \right. \\
& o ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2} \}, \left\{ i=\mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)}, q=q, \mathfrak{k} \frac{1}{2} ! w, e ! \right. \\
& \mathfrak{k} \frac{2qwCqCrCwC1}{2rC1}, o ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2} \}, \left\{ e=e, i= \right. \\
& \mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)}, r=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! q, \mathfrak{k} \frac{1}{2} ! w, o ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \\
& \mathfrak{k} \frac{1}{2} \}, \left\{ i=\mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)}, q=q, \mathfrak{k} \frac{1}{2} ! r, \mathfrak{k} \frac{1}{2} ! w, o ! \mathfrak{k} \frac{1}{2}, t ! \right. \\
& \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2qwCqCrCwC1}{2rC1} ! e \}, \left\{ q=q, e \right. \\
& ! \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)}, o ! \mathfrak{k} \frac{1}{2}, r ! \\
& \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)} ! i \}, \left\{ e=e, r=\mathfrak{k} \frac{1}{2}, \right. \\
& o ! \mathfrak{k} \frac{1}{2}, q ! \frac{4ioK2tuC2iC2oKrKtKuKw}{2wC1}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)} ! i \}, \left\{ q=q, \mathfrak{k} \frac{1}{2} ! r, o ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w \right. \\
& ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)} ! i, \\
& \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)} ! e \}, \left\{ q=q, w= \right. \\
& \mathfrak{k} \frac{1}{2}, e ! \frac{4ioK2tuC2iC2oKrKtKu}{2rC1}, o ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)} ! i \}, \left\{ e=e, q=q, r=\mathfrak{k} \frac{1}{2}, w=\mathfrak{k} \frac{1}{2}, o ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, \right. \\
& u ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)} ! i \}, \left\{ q=q, w=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! r, o ! \mathfrak{k} \frac{1}{2}, t ! \right. \\
& \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, \frac{4ioK2tuC2iC2oKrKtKu}{2rC1} ! e, \mathfrak{k} \frac{\mathfrak{k}4tuC4oK2tK2uC1}{4(2oC1)} \\
& ! i \}, \left\{ q=q, \mathfrak{k} \frac{1}{2} ! w, e \right.
\end{aligned}$$

$$\begin{aligned} & ! \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)}, o ! k\frac{1}{2}, r ! \\ & k\frac{1}{2}, t ! k\frac{1}{2}, u ! k\frac{1}{2}, k\frac{k4tuC4oK2tK2uC1}{4(2oC1)} ! i \}, \left\{ e=e, r=k\frac{1}{2}, k\frac{1}{2} ! w, \right. \\ & o ! k\frac{1}{2}, t ! k\frac{1}{2}, u ! k\frac{1}{2}, \frac{4ioK2tuC2iC2oKtKuKw}{2wC1} ! q, \\ & k\frac{k4tuC4oK2tK2uC1}{4(2oC1)} ! i \}, \left\{ q=q, k\frac{1}{2} ! r, k\frac{1}{2} ! w, o ! k\frac{1}{2}, t ! k\frac{1}{2}, u \right. \\ & ! k\frac{1}{2}, k\frac{k4tuC4oK2tK2uC1}{4(2oC1)} ! i, \\ & \left. \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)} ! e \right\}, \left\{ i=i, o=k\frac{1}{2}, \right. \\ & q=q, e ! k\frac{4qwC4tuC2qC2rC2tC2uC2wC3}{2(2rC1)}, r ! k\frac{1}{2}, t ! k\frac{1}{2}, u ! \\ & k\frac{1}{2}, w ! k\frac{1}{2} \}, \left\{ e=e, i=i, o=k\frac{1}{2}, r=k\frac{1}{2}, q ! k\frac{2tuCrCtCuCwC1}{2wC1}, t ! k\frac{1}{2}, u \right. \\ & ! k\frac{1}{2}, w ! k\frac{1}{2} \}, \left\{ i=i, o=k\frac{1}{2}, q=q, k\frac{1}{2} ! r, t ! k\frac{1}{2}, u ! k\frac{1}{2}, w ! k\frac{1}{2}, \right. \\ & k\frac{4qwC4tuC2qC2rC2tC2uC2wC3}{2(2rC1)} ! e \}, \left\{ i=i, o=k\frac{1}{2}, q=q, w=k\frac{1}{2}, e \right. \\ & ! k\frac{2tuCrCtCuC1}{2rC1}, r ! k\frac{1}{2}, t ! k\frac{1}{2}, u ! k\frac{1}{2} \}, \left\{ e=e, i=i, o=k\frac{1}{2}, q=q, r= \right. \\ & k\frac{1}{2}, w=k\frac{1}{2}, t ! k\frac{1}{2}, u ! k\frac{1}{2} \}, \left\{ i=i, o=k\frac{1}{2}, q=q, w=k\frac{1}{2}, k\frac{1}{2} ! r, t ! k\frac{1}{2}, u \right. \\ & ! k\frac{1}{2}, k\frac{2tuCrCtCuC1}{2rC1} ! e \}, \left\{ i=i, o=k\frac{1}{2}, q=q, k\frac{1}{2} ! w, e ! \right. \\ & k\frac{4qwC4tuC2qC2rC2tC2uC2wC3}{2(2rC1)}, r ! k\frac{1}{2}, t ! k\frac{1}{2}, u ! k\frac{1}{2} \}, \left\{ e=e, i \right. \\ & =i, o=k\frac{1}{2}, r=k\frac{1}{2}, k\frac{1}{2} ! w, t ! k\frac{1}{2}, u ! k\frac{1}{2}, k\frac{2tuCrCtCuCwC1}{2wC1} ! q \}, \left\{ i \right. \\ & =i, o=k\frac{1}{2}, q=q, k\frac{1}{2} ! r, k\frac{1}{2} ! w, t ! k\frac{1}{2}, u ! k\frac{1}{2}, \\ & k\frac{4qwC4tuC2qC2rC2tC2uC2wC3}{2(2rC1)} ! e \}, \left\{ q=q, k\frac{1}{2} ! o, e \right. \\ & ! \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)}, i ! \\ & k\frac{k4tuC4oK2tK2uC1}{4(2oC1)}, r ! k\frac{1}{2}, t ! k\frac{1}{2}, u ! k\frac{1}{2}, w ! k\frac{1}{2} \}, \left\{ e=e, r=k\frac{1}{2}, \right. \\ & k\frac{1}{2} ! o, i ! k\frac{k4tuC4oK2tK2uC1}{4(2oC1)}, q ! \frac{4ioK2tuC2iC2oKtKuKw}{2wC1}, t \\ & ! k\frac{1}{2}, u ! k\frac{1}{2}, w ! k\frac{1}{2} \}, \left\{ q=q, k\frac{1}{2} ! o, k\frac{1}{2} ! r, i ! \right. \\ & k\frac{k4tuC4oK2tK2uC1}{4(2oC1)}, t ! k\frac{1}{2}, u ! k\frac{1}{2}, w ! k\frac{1}{2}, \end{aligned}$$

$$\begin{aligned}
& \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)} ! e \}, \{ q=q, w= \\
& \vdash \frac{1}{2}, \vdash \frac{1}{2} ! o, e ! \frac{4ioK2tuC2iC2oKrKtKu}{2rC1}, i ! \\
& \vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, r ! \vdash \frac{1}{2}, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2} \}, \{ e=e, q=q, r=\vdash \frac{1}{2}, w= \\
& \vdash \frac{1}{2}, \vdash \frac{1}{2} ! o, i ! \vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2} \}, \{ q=q, w= \\
& \vdash \frac{1}{2}, \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! r, i ! \vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, \\
& \frac{4ioK2tuC2iC2oKrKtKu}{2rC1} ! e \}, \{ q=q, \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! w, e \\
& ! \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)}, i ! \\
& \vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, r ! \vdash \frac{1}{2}, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2} \}, \{ e=e, r=\vdash \frac{1}{2}, \vdash \frac{1}{2} ! o, \\
& \vdash \frac{1}{2} ! w, i ! \vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, \\
& \frac{4ioK2tuC2iC2oKtKuKw}{2wC1} ! q \}, \{ q=q, \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! r, \vdash \frac{1}{2} ! w, i ! \\
& \vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, \\
& \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)} ! e \}, \{ i= \\
& \vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, q=q, \vdash \frac{1}{2} ! o, e ! \vdash \frac{2qwCqCrCwC1}{2rC1}, r ! \vdash \frac{1}{2}, t \\
& ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2} \}, \{ e=e, i=\vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, r=\vdash \frac{1}{2}, \vdash \frac{1}{2} \\
& ! o, q ! \vdash \frac{1}{2}, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2} \}, \{ i=\vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, q \\
& =q, \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! r, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2}, \vdash \frac{2qwCqCrCwC1}{2rC1} ! e \}, \{ i \\
& =\vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, q=q, w=\vdash \frac{1}{2}, \vdash \frac{1}{2} ! o, e ! \vdash \frac{1}{2}, r ! \vdash \frac{1}{2}, t ! \\
& \vdash \frac{1}{2}, u ! \vdash \frac{1}{2} \}, \{ i=\vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, q=q, w=\vdash \frac{1}{2}, \vdash \frac{1}{2} ! e, \vdash \frac{1}{2} ! o, \\
& \vdash \frac{1}{2} ! r, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2} \}, \{ i=\vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, q=q, \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} \\
& ! w, e ! \vdash \frac{2qwCqCrCwC1}{2rC1}, r ! \vdash \frac{1}{2}, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2} \}, \{ e=e, i= \\
& \vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, r=\vdash \frac{1}{2}, \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! q, \vdash \frac{1}{2} ! w, t ! \vdash \frac{1}{2}, u ! \\
& \vdash \frac{1}{2} \}, \{ i=\vdash \frac{\vdash 4tuC4oK2tK2uC1}{4(2oC1)}, q=q, \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! r, \vdash \frac{1}{2} ! w, t !
\end{aligned}$$

$$\begin{aligned}
& \left\{ q=q, \frac{1}{2} \neq o, e \right. \\
& \left. ! \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)}, i ! \right. \\
& \left. \frac{k2tuCoKtKu}{2oC1}, r ! \frac{1}{2}, t ! \frac{1}{2}, u ! \frac{1}{2}, w ! \frac{1}{2}, \right. \\
& \left. \frac{k4tuC4oK2tK2uC1}{4(2oC1)} ! i \right\}, \left\{ e=e, r=\frac{1}{2}, \frac{1}{2} \neq o, i ! \right. \\
& \left. \frac{k2tuCoKtKu}{2oC1}, q ! \frac{4ioK2tuC2iC2oKtKuKw}{2wC1}, t ! \frac{1}{2}, u ! \frac{1}{2}, w \right. \\
& \left. ! \frac{1}{2}, \frac{k4tuC4oK2tK2uC1}{4(2oC1)} ! i \right\}, \left\{ q=q, \frac{1}{2} \neq o, \frac{1}{2} \neq r, i ! \right. \\
& \left. \frac{k2tuCoKtKu}{2oC1}, t ! \frac{1}{2}, u ! \frac{1}{2}, w ! \frac{1}{2}, \frac{k4tuC4oK2tK2uC1}{4(2oC1)} ! i, \right. \\
& \left. \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)} ! e \right\}, \left\{ q=q, w= \right. \\
& \left. \frac{1}{2}, \frac{1}{2} \neq o, e ! \frac{4ioK2tuC2iC2oKrKtKu}{2rC1}, i ! \frac{k2tuCoKtKu}{2oC1}, r ! \right. \\
& \left. \frac{1}{2}, t ! \frac{1}{2}, u ! \frac{1}{2}, \frac{k4tuC4oK2tK2uC1}{4(2oC1)} ! i \right\}, \left\{ q=q, w=\frac{1}{2}, \frac{1}{2} \right. \\
& \left. \neq o, \frac{1}{2} \neq r, i ! \frac{k2tuCoKtKu}{2oC1}, t ! \frac{1}{2}, u ! \frac{1}{2}, \right. \\
& \left. \frac{4ioK2tuC2iC2oKrKtKu}{2rC1} ! e, \frac{k4tuC4oK2tK2uC1}{4(2oC1)} ! i \right\}, \left\{ q=q, \right. \\
& \left. \frac{1}{2} \neq o, \frac{1}{2} \neq w, e \right. \\
& \left. ! \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)}, i ! \right. \\
& \left. \frac{k2tuCoKtKu}{2oC1}, r ! \frac{1}{2}, t ! \frac{1}{2}, u ! \frac{1}{2}, \frac{k4tuC4oK2tK2uC1}{4(2oC1)} ! i \right\}, \\
& \left\{ e=e, r=\frac{1}{2}, \frac{1}{2} \neq o, \frac{1}{2} \neq w, i ! \frac{k2tuCoKtKu}{2oC1}, t ! \frac{1}{2}, u ! \frac{1}{2}, \right. \\
& \left. \frac{4ioK2tuC2iC2oKtKuKw}{2wC1} ! q, \frac{k4tuC4oK2tK2uC1}{4(2oC1)} ! i \right\}, \left\{ q=q, \right. \\
& \left. \frac{1}{2} \neq o, \frac{1}{2} \neq r, \frac{1}{2} \neq w, i ! \frac{k2tuCoKtKu}{2oC1}, t ! \frac{1}{2}, u ! \frac{1}{2}, \right. \\
& \left. \frac{k4tuC4oK2tK2uC1}{4(2oC1)} ! i, \right. \\
& \left. \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)} ! e \right\}, \left\{ q=q, t=\frac{1}{2}, \right. \\
& \left. \frac{1}{2} \neq i, e ! \frac{4ioK2qwC2iC2oKqKrKw}{2rC1}, o ! \frac{1}{2}, r ! \frac{1}{2}, u ! \frac{1}{2}, w ! \right. \\
& \left. \frac{1}{2} \right\}, \left\{ e=e, r=\frac{1}{2}, t=\frac{1}{2}, \frac{1}{2} \neq i, o ! \frac{1}{2}, q ! \frac{8ioC4iC4oK2wC1}{2(2wC1)}, u \right.
\end{aligned}$$

$$\begin{aligned} & \{ \vdash \frac{1}{2}, w \vdash \frac{1}{2} \}, \left\{ q=q, t=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash i, \vdash \frac{1}{2} \vdash r, o \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2}, \right. \\ & \left. \frac{4ioK2qwC2iC2oKqKrKw}{2rC1} \vdash e \right\}, \left\{ q=q, t=\vdash \frac{1}{2}, w=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash i, e \right. \\ & \left. \vdash \frac{8ioC4iC4oK2rC1}{2(2rC1)}, o \vdash \vdash \frac{1}{2}, r \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2} \right\}, \left\{ e=e, q=q, r=\vdash \frac{1}{2}, t= \right. \\ & \left. \vdash \frac{1}{2}, w=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash i, o \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2} \right\}, \left\{ q=q, t=\vdash \frac{1}{2}, w=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash i, \vdash \frac{1}{2} \right. \\ & \left. \vdash r, o \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, \frac{8ioC4iC4oK2rC1}{2(2rC1)} \vdash e \right\}, \left\{ q=q, t=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash i, \right. \\ & \left. \vdash \frac{1}{2} \vdash w, e \vdash \frac{4ioK2qwC2iC2oKqKrKw}{2rC1}, o \vdash \vdash \frac{1}{2}, r \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2} \right\}, \left\{ e \right. \\ & \left. =e, r=\vdash \frac{1}{2}, t=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash i, \vdash \frac{1}{2} \vdash w, o \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, \right. \\ & \left. \frac{8ioC4iC4oK2wC1}{2(2wC1)} \vdash q \right\}, \left\{ q=q, t=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash i, \vdash \frac{1}{2} \vdash r, \vdash \frac{1}{2} \vdash w, o \vdash \right. \\ & \left. \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, \frac{4ioK2qwC2iC2oKqKrKw}{2rC1} \vdash e \right\}, \left\{ q=q, t=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash o, e \right. \\ & \left. \vdash \frac{4ioK2qwC2iC2oKqKrKw}{2rC1}, i \vdash \vdash \frac{1}{2}, r \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2} \right\}, \left\{ e \right. \\ & \left. =e, r=\vdash \frac{1}{2}, t=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash o, i \vdash \vdash \frac{1}{2}, q \vdash \frac{8ioC4iC4oK2wC1}{2(2wC1)}, u \vdash \vdash \frac{1}{2}, w \right. \\ & \left. \vdash \vdash \frac{1}{2} \right\}, \left\{ q=q, t=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash o, \vdash \frac{1}{2} \vdash r, i \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2}, \right. \\ & \left. \frac{4ioK2qwC2iC2oKqKrKw}{2rC1} \vdash e \right\}, \left\{ q=q, t=\vdash \frac{1}{2}, w=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash o, e \right. \\ & \left. \vdash \frac{8ioC4iC4oK2rC1}{2(2rC1)}, i \vdash \vdash \frac{1}{2}, r \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2} \right\}, \left\{ e=e, q=q, r=\vdash \frac{1}{2}, t= \right. \\ & \left. \vdash \frac{1}{2}, w=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash o, i \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2} \right\}, \left\{ q=q, t=\vdash \frac{1}{2}, w=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash o, \vdash \frac{1}{2} \right. \\ & \left. \vdash r, i \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, \frac{8ioC4iC4oK2rC1}{2(2rC1)} \vdash e \right\}, \left\{ q=q, t=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash o, \right. \\ & \left. \vdash \frac{1}{2} \vdash w, e \vdash \frac{4ioK2qwC2iC2oKqKrKw}{2rC1}, i \vdash \vdash \frac{1}{2}, r \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2} \right\}, \left\{ e \right. \\ & \left. =e, r=\vdash \frac{1}{2}, t=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash o, \vdash \frac{1}{2} \vdash w, i \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, \right. \\ & \left. \frac{8ioC4iC4oK2wC1}{2(2wC1)} \vdash q \right\}, \left\{ q=q, t=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash o, \vdash \frac{1}{2} \vdash r, \vdash \frac{1}{2} \vdash w, i \vdash \right. \\ & \left. \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, \frac{4ioK2qwC2iC2oKqKrKw}{2rC1} \vdash e \right\}, \left\{ q=q, \vdash \frac{1}{2} \vdash t, e \right. \\ & \left. \vdash \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)}, o \vdash \vdash \frac{1}{2}, r \vdash \right. \\ & \left. \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2}, \vdash \frac{t2tuCoKtKu}{2oC1} \vdash i \right\}, \left\{ e=e, r=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash t, o \vdash \right. \end{aligned}$$

$$\begin{aligned}
& \mathfrak{k} \frac{1}{2}, q \mathfrak{!} \frac{4ioK2tuC2iC2oKtKuKw}{2wC1}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{\mathfrak{k}2tuCoKtKu}{2oC1} \mathfrak{!} i \mathfrak{!} \mathfrak{!} \left\{ q=q, \mathfrak{k} \frac{1}{2} \mathfrak{!} r, \mathfrak{k} \frac{1}{2} \mathfrak{!} t, o \mathfrak{!} \mathfrak{k} \frac{1}{2}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2}, \right. \\
& \mathfrak{k} \frac{\mathfrak{k}2tuCoKtKu}{2oC1} \mathfrak{!} i, \\
& \left. \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)} \mathfrak{!} e \mathfrak{!} \right\}, \left\{ q=q, w= \right. \\
& \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} t, e \mathfrak{!} \frac{4ioK2tuC2iC2oKrKtKu}{2rC1}, o \mathfrak{!} \mathfrak{k} \frac{1}{2}, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{\mathfrak{k}2tuCoKtKu}{2oC1} \mathfrak{!} i \mathfrak{!} \mathfrak{!} \left\{ e=e, q=q, r=\mathfrak{k} \frac{1}{2}, w=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} t, o \mathfrak{!} \mathfrak{k} \frac{1}{2}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, \right. \\
& \mathfrak{k} \frac{\mathfrak{k}2tuCoKtKu}{2oC1} \mathfrak{!} i \mathfrak{!} \mathfrak{!} \left\{ q=q, w=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} r, \mathfrak{k} \frac{1}{2} \mathfrak{!} t, o \mathfrak{!} \mathfrak{k} \frac{1}{2}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, \right. \\
& \left. \frac{4ioK2tuC2iC2oKrKtKu}{2rC1} \mathfrak{!} e, \mathfrak{k} \frac{\mathfrak{k}2tuCoKtKu}{2oC1} \mathfrak{!} i \mathfrak{!} \right\}, \left\{ q=q, \mathfrak{k} \frac{1}{2} \mathfrak{!} t, \right. \\
& \mathfrak{k} \frac{1}{2} \mathfrak{!} w, e \mathfrak{!} \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)}, o \mathfrak{!} \\
& \mathfrak{k} \frac{1}{2}, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{\mathfrak{k}2tuCoKtKu}{2oC1} \mathfrak{!} i \mathfrak{!} \mathfrak{!} \left\{ e=e, r=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} t, \mathfrak{k} \frac{1}{2} \mathfrak{!} w, \right. \\
& o \mathfrak{!} \mathfrak{k} \frac{1}{2}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, \frac{4ioK2tuC2iC2oKtKuKw}{2wC1} \mathfrak{!} q, \mathfrak{k} \frac{\mathfrak{k}2tuCoKtKu}{2oC1} \\
& \mathfrak{!} i \mathfrak{!} \mathfrak{!} \left\{ q=q, \mathfrak{k} \frac{1}{2} \mathfrak{!} r, \mathfrak{k} \frac{1}{2} \mathfrak{!} t, \mathfrak{k} \frac{1}{2} \mathfrak{!} w, o \mathfrak{!} \mathfrak{k} \frac{1}{2}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{\mathfrak{k}2tuCoKtKu}{2oC1} \right. \\
& \mathfrak{!} i, \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)} \mathfrak{!} e \mathfrak{!} \mathfrak{!} \left\{ q=q, \right. \\
& \mathfrak{k} \frac{1}{2} \mathfrak{!} o, \mathfrak{k} \frac{1}{2} \mathfrak{!} t, e \\
& \mathfrak{!} \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)}, i \mathfrak{!} \\
& \mathfrak{k} \frac{\mathfrak{k}2tuCoKtKu}{2oC1}, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2} \mathfrak{!} \mathfrak{!} \left\{ e=e, r=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} o, \mathfrak{k} \frac{1}{2} \right. \\
& \mathfrak{!} t, i \mathfrak{!} \mathfrak{k} \frac{\mathfrak{k}2tuCoKtKu}{2oC1}, q \mathfrak{!} \frac{4ioK2tuC2iC2oKtKuKw}{2wC1}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \\
& \mathfrak{!} \mathfrak{k} \frac{1}{2} \mathfrak{!} \mathfrak{!} \left\{ q=q, \mathfrak{k} \frac{1}{2} \mathfrak{!} o, \mathfrak{k} \frac{1}{2} \mathfrak{!} r, \mathfrak{k} \frac{1}{2} \mathfrak{!} t, i \mathfrak{!} \mathfrak{k} \frac{\mathfrak{k}2tuCoKtKu}{2oC1}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \right. \\
& \mathfrak{k} \frac{1}{2}, \frac{8ioK4qwK4tuC4iC4oK2qK2rK2tK2uK2wK1}{2(2rC1)} \mathfrak{!} e \mathfrak{!} \mathfrak{!} \left\{ q=q, w \right. \\
& =\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} o, \mathfrak{k} \frac{1}{2} \mathfrak{!} t, e \mathfrak{!} \frac{4ioK2tuC2iC2oKrKtKu}{2rC1}, i \mathfrak{!} \\
& \mathfrak{k} \frac{\mathfrak{k}2tuCoKtKu}{2oC1}, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, u \mathfrak{!} \mathfrak{k} \frac{1}{2} \mathfrak{!} \mathfrak{!} \left\{ e=e, q=q, r=\mathfrak{k} \frac{1}{2}, w=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} o, \right. \\
& \mathfrak{k} \frac{1}{2} \mathfrak{!} t, i \mathfrak{!} \mathfrak{k} \frac{\mathfrak{k}2tuCoKtKu}{2oC1}, u \mathfrak{!} \mathfrak{k} \frac{1}{2} \mathfrak{!} \mathfrak{!} \left\{ q=q, w=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} o, \mathfrak{k} \frac{1}{2} \mathfrak{!} r, \mathfrak{k} \frac{1}{2} \right.
\end{aligned}$$

$$\begin{aligned}
& \{ t, i \mid \frac{k^2 tu Co Kt Ku}{2 o C 1}, u \mid \frac{1}{2}, \frac{4 i o K 2 tu C 2 i C 2 o K r K t Ku}{2 r C 1} \mid e \}, \{ q \\
& = q, \frac{1}{2} \mid o, \frac{1}{2} \mid t, \frac{1}{2} \mid w, e \\
& \mid \frac{8 i o K 4 q w K 4 tu C 4 i C 4 o K 2 q K 2 r K 2 t K 2 u K 2 w K 1}{2 (2 r C 1)}, i \mid \\
& \frac{k^2 tu Co Kt Ku}{2 o C 1}, r \mid \frac{1}{2}, u \mid \frac{1}{2} \}, \{ e = e, r = \frac{1}{2}, \frac{1}{2} \mid o, \frac{1}{2} \mid t, \frac{1}{2} \\
& \mid w, i \mid \frac{k^2 tu Co Kt Ku}{2 o C 1}, u \mid \frac{1}{2}, \frac{4 i o K 2 tu C 2 i C 2 o K t Ku K w}{2 w C 1} \mid q \}, \{ q \\
& = q, \frac{1}{2} \mid o, \frac{1}{2} \mid r, \frac{1}{2} \mid t, \frac{1}{2} \mid w, i \mid \frac{k^2 tu Co Kt Ku}{2 o C 1}, u \mid \frac{1}{2}, \\
& \frac{8 i o K 4 q w K 4 tu C 4 i C 4 o K 2 q K 2 r K 2 t K 2 u K 2 w K 1}{2 (2 r C 1)} \mid e \}, \{ q = q, t = t, u = \\
& \frac{1}{2}, \frac{1}{2} \mid i, e \mid \frac{4 i o K 2 q w C 2 i C 2 o K q K r K w}{2 r C 1}, o \mid \frac{1}{2}, r \mid \frac{1}{2}, w \mid \\
& \frac{1}{2} \}, \{ e = e, r = \frac{1}{2}, t = t, u = \frac{1}{2}, \frac{1}{2} \mid i, o \mid \frac{1}{2}, q \\
& \mid \frac{8 i o C 4 i C 4 o K 2 w C 1}{2 (2 w C 1)}, w \mid \frac{1}{2} \}, \{ q = q, t = t, u = \frac{1}{2}, \frac{1}{2} \mid i, \frac{1}{2} \mid r, o \\
& \mid \frac{1}{2}, w \mid \frac{1}{2}, \frac{4 i o K 2 q w C 2 i C 2 o K q K r K w}{2 r C 1} \mid e \}, \{ q = q, t = t, u = \frac{1}{2}, w \\
& = \frac{1}{2}, \frac{1}{2} \mid i, e \mid \frac{8 i o C 4 i C 4 o K 2 r C 1}{2 (2 r C 1)}, o \mid \frac{1}{2}, r \mid \frac{1}{2} \}, \{ e = e, q = q, r = \\
& \frac{1}{2}, t = t, u = \frac{1}{2}, w = \frac{1}{2}, \frac{1}{2} \mid i, o \mid \frac{1}{2} \}
\end{aligned}$$

> solve(0 ! p2 O p3)

Warning, returning only the first 100 solutions, increase
MaxSols to see more solutions

$$\begin{aligned}
& \{ e \mid \frac{k^8 tu C 2 r K 4 t K 4 u K 1}{2 (2 r C 1)}, i \mid \\
& \frac{4 e r C 4 q w K 8 tu C 2 e C 2 o C 2 q C 2 r K 4 t K 4 u C 2 w C 1}{2 (2 o C 1)}, o \mid \frac{1}{2}, q \mid \\
& \frac{2 e r K 4 tu C e C r K 2 t K 2 u C w}{2 w C 1}, r \mid \frac{1}{2}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, w \mid \frac{1}{2} \}, \{ i = i, o \\
& = \frac{1}{2}, e \mid \frac{k^8 tu C 2 r K 4 t K 4 u K 1}{2 (2 r C 1)}, q \mid \frac{2 e r K 4 tu C e C r K 2 t K 2 u C w}{2 w C 1}, r \\
& \mid \frac{1}{2}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, w \mid \frac{1}{2} \}, \{ \frac{1}{2} \mid o, e \mid \frac{k^8 tu C 2 r K 4 t K 4 u K 1}{2 (2 r C 1)}, q \\
& \mid \frac{2 e r K 4 tu C e C r K 2 t K 2 u C w}{2 w C 1}, r \mid \frac{1}{2}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, w \mid \frac{1}{2}, \\
& \frac{4 e r C 4 q w K 8 tu C 2 e C 2 o C 2 q C 2 r K 4 t K 4 u C 2 w C 1}{2 (2 o C 1)} \mid i \}, \{ q =
\end{aligned}$$

(22)

$$\begin{aligned}
& \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, e ! \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, i ! \mathfrak{k} \frac{1}{2}, o \\
& ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \{q = \\
& \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} ! o, e ! \\
& \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, r ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \{e ! \\
& \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, i ! \\
& \mathfrak{k} \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)}, o ! \mathfrak{k} \frac{1}{2}, r ! \\
& \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1} ! q \}, \{ \mathfrak{k} \frac{1}{2} \\
& ! o, e ! \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, r ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1} ! q, \\
& \mathfrak{k} \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)} ! i \}, \{q = q, w = \\
& \mathfrak{k} \frac{1}{2}, e ! \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, i ! \mathfrak{k} \frac{2erK4tuCeCoCrK2tK2u}{2oC1}, o \\
& ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2} \}, \{i = i, o = \mathfrak{k} \frac{1}{2}, q = q, w = \mathfrak{k} \frac{1}{2}, e ! \\
& \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, r ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2} \}, \{q = q, w = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \\
& ! o, e ! \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, r ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{2erK4tuCeCoCrK2tK2u}{2oC1} ! i \}, \{ \mathfrak{k} \frac{1}{2} ! w, e ! \\
& \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, i ! \\
& \mathfrak{k} \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)}, o ! \mathfrak{k} \frac{1}{2}, q ! \\
& \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, r ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2} \}, \{ \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} \\
& ! w, e ! \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, q ! \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, r \\
& ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)} ! i \}, \{q = \\
& \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, \mathfrak{k} \frac{1}{2} ! w, e ! \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, i
\end{aligned}$$

$$\begin{aligned}
& ! \, \mathfrak{k} \frac{1}{2}, o ! \, \mathfrak{k} \frac{1}{2}, r ! \, \mathfrak{k} \frac{1}{2}, t ! \, \mathfrak{k} \frac{1}{2}, u ! \, \mathfrak{k} \frac{1}{2} \}, \{ q = \\
& \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! w, e ! \\
& \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, r ! \, \mathfrak{k} \frac{1}{2}, t ! \, \mathfrak{k} \frac{1}{2}, u ! \, \mathfrak{k} \frac{1}{2} \}, \{ \mathfrak{k} \frac{1}{2} ! w, e ! \\
& \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, i ! \\
& \mathfrak{k} \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)}, o ! \, \mathfrak{k} \frac{1}{2}, r ! \\
& \mathfrak{k} \frac{1}{2}, t ! \, \mathfrak{k} \frac{1}{2}, u ! \, \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1} ! q \}, \{ i = i, o = \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{1}{2} ! w, e ! \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, r ! \, \mathfrak{k} \frac{1}{2}, t ! \, \mathfrak{k} \frac{1}{2}, u ! \, \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1} ! q \}, \{ \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! w, e ! \\
& \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, r ! \, \mathfrak{k} \frac{1}{2}, t ! \, \mathfrak{k} \frac{1}{2}, u ! \, \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1} ! q, \\
& \mathfrak{k} \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)} ! i \}, \{ e = \\
& \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, i ! \mathfrak{k} \frac{2qwCoCqCwC1}{2oC1}, o ! \, \mathfrak{k} \frac{1}{2}, q ! \, \mathfrak{k} \frac{1}{2}, r ! \\
& \mathfrak{k} \frac{1}{2}, t ! \, \mathfrak{k} \frac{1}{2}, u ! \, \mathfrak{k} \frac{1}{2}, w ! \, \mathfrak{k} \frac{1}{2} \}, \{ e = \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, i = i, o = \mathfrak{k} \frac{1}{2}, q \\
& ! \, \mathfrak{k} \frac{1}{2}, r ! \, \mathfrak{k} \frac{1}{2}, t ! \, \mathfrak{k} \frac{1}{2}, u ! \, \mathfrak{k} \frac{1}{2}, w ! \, \mathfrak{k} \frac{1}{2} \}, \{ e = \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, \\
& \mathfrak{k} \frac{1}{2} ! o, q ! \, \mathfrak{k} \frac{1}{2}, r ! \, \mathfrak{k} \frac{1}{2}, t ! \, \mathfrak{k} \frac{1}{2}, u ! \, \mathfrak{k} \frac{1}{2}, w ! \, \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2qwCoCqCwC1}{2oC1} \\
& ! i \}, \{ e = \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, q = \mathfrak{k} \frac{1}{2}, i ! \, \mathfrak{k} \frac{1}{2}, o ! \, \mathfrak{k} \frac{1}{2}, r ! \, \mathfrak{k} \frac{1}{2}, t ! \\
& \mathfrak{k} \frac{1}{2}, u ! \, \mathfrak{k} \frac{1}{2}, w ! \, \mathfrak{k} \frac{1}{2} \}, \{ e = \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} \\
& ! o, r ! \, \mathfrak{k} \frac{1}{2}, t ! \, \mathfrak{k} \frac{1}{2}, u ! \, \mathfrak{k} \frac{1}{2}, w ! \, \mathfrak{k} \frac{1}{2} \}, \{ e = \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, \mathfrak{k} \frac{1}{2} \\
& ! q, i ! \mathfrak{k} \frac{2qwCoCqCwC1}{2oC1}, o ! \, \mathfrak{k} \frac{1}{2}, r ! \, \mathfrak{k} \frac{1}{2}, t ! \, \mathfrak{k} \frac{1}{2}, u ! \, \mathfrak{k} \frac{1}{2}, w ! \, \mathfrak{k} \frac{1}{2} \}, \\
& \{ e = \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! q, r ! \, \mathfrak{k} \frac{1}{2}, t ! \, \mathfrak{k} \frac{1}{2}, u ! \, \mathfrak{k} \frac{1}{2}, w \\
& ! \, \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2qwCoCqCwC1}{2oC1} ! i \}, \{ e = \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, q = q, w = \\
& \mathfrak{k} \frac{1}{2}, i ! \, \mathfrak{k} \frac{1}{2}, o ! \, \mathfrak{k} \frac{1}{2}, r ! \, \mathfrak{k} \frac{1}{2}, t ! \, \mathfrak{k} \frac{1}{2}, u ! \, \mathfrak{k} \frac{1}{2} \}, \{ e =
\end{aligned}$$

$$\begin{aligned}
& \vdash \frac{\vdash 8tuC2rK4tK4uK1}{2(2rC1)}, q=q, w=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash i, \vdash \frac{1}{2} \vdash o, r \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \\
& \vdash \vdash \frac{1}{2} \}, \left\{ e=\vdash \frac{\vdash 8tuC2rK4tK4uK1}{2(2rC1)}, \vdash \frac{1}{2} \vdash w, i \vdash \vdash \frac{2qwCoCqCwC1}{2oC1}, o \right. \\
& \vdash \vdash \frac{1}{2}, q \vdash \vdash \frac{1}{2}, r \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2} \}, \left\{ e=\vdash \frac{\vdash 8tuC2rK4tK4uK1}{2(2rC1)}, \right. \\
& \vdash \frac{1}{2} \vdash o, \vdash \frac{1}{2} \vdash w, q \vdash \vdash \frac{1}{2}, r \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, \vdash \frac{2qwCoCqCwC1}{2oC1} \\
& \vdash i \}, \left\{ e=\vdash \frac{\vdash 8tuC2rK4tK4uK1}{2(2rC1)}, q=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash w, i \vdash \vdash \frac{1}{2}, o \vdash \vdash \frac{1}{2}, r \vdash \right. \\
& \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2} \}, \left\{ e=\vdash \frac{\vdash 8tuC2rK4tK4uK1}{2(2rC1)}, q=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash i, \vdash \frac{1}{2} \right. \\
& \vdash o, \vdash \frac{1}{2} \vdash w, r \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2} \}, \left\{ e=\vdash \frac{\vdash 8tuC2rK4tK4uK1}{2(2rC1)}, \vdash \frac{1}{2} \right. \\
& \vdash q, \vdash \frac{1}{2} \vdash w, i \vdash \vdash \frac{2qwCoCqCwC1}{2oC1}, o \vdash \vdash \frac{1}{2}, r \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2} \}, \\
& \left\{ e=\vdash \frac{\vdash 8tuC2rK4tK4uK1}{2(2rC1)}, i=i, o=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash q, \vdash \frac{1}{2} \vdash w, r \vdash \vdash \frac{1}{2}, t \vdash \right. \\
& \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2} \}, \left\{ e=\vdash \frac{\vdash 8tuC2rK4tK4uK1}{2(2rC1)}, \vdash \frac{1}{2} \vdash o, \vdash \frac{1}{2} \vdash q, \vdash \frac{1}{2} \vdash w, r \vdash \right. \\
& \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, \vdash \frac{2qwCoCqCwC1}{2oC1} \vdash i \}, \left\{ e \vdash \vdash \frac{\vdash 2tuCrKtKu}{2rC1}, i \vdash \right. \\
& \vdash \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)}, o \vdash \vdash \frac{1}{2}, q \vdash \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, r \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2}, \\
& \vdash \frac{\vdash 8tuC2rK4tK4uK1}{2(2rC1)} \vdash e \}, \left\{ i=i, o=\vdash \frac{1}{2}, e \vdash \vdash \frac{\vdash 2tuCrKtKu}{2rC1}, q \vdash \right. \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, r \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2}, \\
& \vdash \frac{\vdash 8tuC2rK4tK4uK1}{2(2rC1)} \vdash e \}, \left\{ \vdash \frac{1}{2} \vdash o, e \vdash \vdash \frac{\vdash 2tuCrKtKu}{2rC1}, q \vdash \right. \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, r \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2}, \\
& \vdash \frac{\vdash 8tuC2rK4tK4uK1}{2(2rC1)} \vdash e, \\
& \vdash \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)} \vdash i \}, \left\{ q= \right. \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, e \vdash \vdash \frac{\vdash 2tuCrKtKu}{2rC1}, i \vdash \vdash \frac{1}{2}, o \vdash \vdash \frac{1}{2}, r \\
& \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2}, \vdash \frac{\vdash 8tuC2rK4tK4uK1}{2(2rC1)} \vdash e \}, \left\{ q= \right. \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, \vdash \frac{1}{2} \vdash i, \vdash \frac{1}{2} \vdash o, e \vdash \vdash \frac{\vdash 2tuCrKtKu}{2rC1}, r
\end{aligned}$$

$$\begin{aligned}
& \{ \vdash \frac{1}{2}, t \vdash \frac{1}{2}, u \vdash \frac{1}{2}, w \vdash \frac{1}{2}, \vdash \frac{\text{K8tuC2rK4tK4uK1}}{2(2rC1)} \vdash e \}, \{ e \vdash \\
& \vdash \frac{\text{K2tuCrKtKu}}{2rC1}, i \vdash \\
& \vdash \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)}, o \vdash \vdash \frac{1}{2}, r \vdash \\
& \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2}, \vdash \frac{\text{K8tuC2rK4tK4uK1}}{2(2rC1)} \vdash e, \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1} \vdash q \}, \{ \vdash \frac{1}{2} \vdash o, e \vdash \vdash \frac{\text{K2tuCrKtKu}}{2rC1}, r \vdash \\
& \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2}, \vdash \frac{\text{K8tuC2rK4tK4uK1}}{2(2rC1)} \vdash e, \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1} \vdash q, \\
& \vdash \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)} \vdash i \}, \{ q=q, w= \\
& \vdash \frac{1}{2}, e \vdash \vdash \frac{\text{K2tuCrKtKu}}{2rC1}, i \vdash \vdash \frac{2erK4tuCeCoCrK2tK2u}{2oC1}, o \vdash \vdash \frac{1}{2}, r \\
& \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, \vdash \frac{\text{K8tuC2rK4tK4uK1}}{2(2rC1)} \vdash e \}, \{ q=q, w=\vdash \frac{1}{2}, \vdash \frac{1}{2} \\
& \vdash o, e \vdash \vdash \frac{\text{K2tuCrKtKu}}{2rC1}, r \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, \\
& \vdash \frac{\text{K8tuC2rK4tK4uK1}}{2(2rC1)} \vdash e, \vdash \frac{2erK4tuCeCoCrK2tK2u}{2oC1} \vdash i \}, \{ \vdash \frac{1}{2} \\
& \vdash w, e \vdash \vdash \frac{\text{K2tuCrKtKu}}{2rC1}, i \vdash \\
& \vdash \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)}, o \vdash \vdash \frac{1}{2}, q \vdash \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, r \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, \\
& \vdash \frac{\text{K8tuC2rK4tK4uK1}}{2(2rC1)} \vdash e \}, \{ \vdash \frac{1}{2} \vdash o, \vdash \frac{1}{2} \vdash w, e \vdash \vdash \frac{\text{K2tuCrKtKu}}{2rC1}, q \\
& \vdash \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, r \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, \\
& \vdash \frac{\text{K8tuC2rK4tK4uK1}}{2(2rC1)} \vdash e, \\
& \vdash \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)} \vdash i \}, \{ q= \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, \vdash \frac{1}{2} \vdash w, e \vdash \vdash \frac{\text{K2tuCrKtKu}}{2rC1}, i \vdash \vdash \frac{1}{2}, o \\
& \vdash \vdash \frac{1}{2}, r \vdash \vdash \frac{1}{2}, t \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, \vdash \frac{\text{K8tuC2rK4tK4uK1}}{2(2rC1)} \vdash e \}, \{ q= \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, \vdash \frac{1}{2} \vdash i, \vdash \frac{1}{2} \vdash o, \vdash \frac{1}{2} \vdash w, e \vdash
\end{aligned}$$

$$\begin{aligned}
& \left\{ \frac{t^2 tu Cr K t Ku}{2rC1}, r \mid \frac{1}{2}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, \frac{t^8 tu C2rK4tK4uK1}{2(2rC1)} \mid e \right\}, \\
& \left\{ \frac{1}{2} \mid w, e \mid \frac{t^2 tu Cr K t Ku}{2rC1}, i \mid \right. \\
& \left. \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)}, o \mid \frac{1}{2}, r \mid \right. \\
& \left. \frac{1}{2}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, \frac{t^8 tu C2rK4tK4uK1}{2(2rC1)} \mid e, \right. \\
& \left. \frac{2erK4tuCeCrK2tK2uCw}{2wC1} \mid q \right\}, \left\{ i=i, o=\frac{1}{2}, \frac{1}{2} \mid w, e \mid \right. \\
& \left. \frac{t^2 tu Cr K t Ku}{2rC1}, r \mid \frac{1}{2}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, \frac{t^8 tu C2rK4tK4uK1}{2(2rC1)} \mid e, \right. \\
& \left. \frac{2erK4tuCeCrK2tK2uCw}{2wC1} \mid q \right\}, \left\{ \frac{1}{2} \mid o, \frac{1}{2} \mid w, e \mid \right. \\
& \left. \frac{t^2 tu Cr K t Ku}{2rC1}, r \mid \frac{1}{2}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, \frac{t^8 tu C2rK4tK4uK1}{2(2rC1)} \mid e, \right. \\
& \left. \frac{2erK4tuCeCrK2tK2uCw}{2wC1} \mid q, \right. \\
& \left. \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)} \mid i \right\}, \left\{ \frac{1}{2} \mid r, e \right. \\
& \left. \mid \frac{t^8 tu C2rK4tK4uK1}{2(2rC1)}, i \mid \right. \\
& \left. \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)}, o \mid \frac{1}{2}, q \mid \right. \\
& \left. \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, w \mid \frac{1}{2}, \right. \\
& \left. \frac{t^2 tu Cr K t Ku}{2rC1} \mid e \right\}, \left\{ i=i, o=\frac{1}{2}, \frac{1}{2} \mid r, e \mid \frac{t^8 tu C2rK4tK4uK1}{2(2rC1)}, \right. \\
& q \mid \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, w \mid \frac{1}{2}, \\
& \left. \frac{t^2 tu Cr K t Ku}{2rC1} \mid e \right\}, \left\{ \frac{1}{2} \mid o, \frac{1}{2} \mid r, e \mid \frac{t^8 tu C2rK4tK4uK1}{2(2rC1)}, q \right. \\
& \left. \mid \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, w \mid \frac{1}{2}, \right. \\
& \left. \frac{t^2 tu Cr K t Ku}{2rC1} \mid e, \right. \\
& \left. \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)} \mid i \right\}, \left\{ q= \right. \\
& \left. \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, \frac{1}{2} \mid r, e \mid \frac{t^8 tu C2rK4tK4uK1}{2(2rC1)}, i \right. \\
& \left. \mid \frac{1}{2}, o \mid \frac{1}{2}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, w \mid \frac{1}{2}, \frac{t^2 tu Cr K t Ku}{2rC1} \mid e \right\}, \left\{ q= \right. \\
& \left. \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, \frac{1}{2} \mid i, \frac{1}{2} \mid o, \frac{1}{2} \mid r, e \mid \right.
\end{aligned}$$

$$\begin{aligned}
& \left\{ \frac{t^8 tu C 2 r K 4 t K 4 u K 1}{2 (2 r C 1)}, t ! \frac{1}{2}, u ! \frac{1}{2}, w ! \frac{1}{2}, \frac{t^2 tu C r K t K u}{2 r C 1} ! e \right\} \\
& , \left\{ \frac{1}{2} ! r, e ! \frac{t^8 tu C 2 r K 4 t K 4 u K 1}{2 (2 r C 1)}, i ! \right. \\
& \left. \frac{4 e r C 4 q w K 8 tu C 2 e C 2 o C 2 q C 2 r K 4 t K 4 u C 2 w C 1}{2 (2 o C 1)}, o ! \frac{1}{2}, t ! \right. \\
& \left. \frac{1}{2}, u ! \frac{1}{2}, w ! \frac{1}{2}, \frac{t^2 tu C r K t K u}{2 r C 1} ! e, \right. \\
& \left. \frac{2 e r K 4 tu C e C r K 2 t K 2 u C w}{2 w C 1} ! q \right\}, \left\{ \frac{1}{2} ! o, \frac{1}{2} ! r, e ! \right. \\
& \left. \frac{t^8 tu C 2 r K 4 t K 4 u K 1}{2 (2 r C 1)}, t ! \frac{1}{2}, u ! \frac{1}{2}, w ! \frac{1}{2}, \frac{t^2 tu C r K t K u}{2 r C 1} ! e, \right. \\
& \left. \frac{2 e r K 4 tu C e C r K 2 t K 2 u C w}{2 w C 1} ! q, \right. \\
& \left. \frac{4 e r C 4 q w K 8 tu C 2 e C 2 o C 2 q C 2 r K 4 t K 4 u C 2 w C 1}{2 (2 o C 1)} ! i \right\}, \left\{ q = q, w = \right. \\
& \left. \frac{1}{2}, \frac{1}{2} ! r, e ! \frac{t^8 tu C 2 r K 4 t K 4 u K 1}{2 (2 r C 1)}, i ! \right. \\
& \left. \frac{2 e r K 4 tu C e C o C r K 2 t K 2 u}{2 o C 1}, o ! \frac{1}{2}, t ! \frac{1}{2}, u ! \frac{1}{2}, \right. \\
& \left. \frac{t^2 tu C r K t K u}{2 r C 1} ! e \right\}, \left\{ q = q, w = \frac{1}{2}, \frac{1}{2} ! o, \frac{1}{2} ! r, e ! \right. \\
& \left. \frac{t^8 tu C 2 r K 4 t K 4 u K 1}{2 (2 r C 1)}, t ! \frac{1}{2}, u ! \frac{1}{2}, \frac{t^2 tu C r K t K u}{2 r C 1} ! e, \right. \\
& \left. \frac{2 e r K 4 tu C e C o C r K 2 t K 2 u}{2 o C 1} ! i \right\}, \left\{ \frac{1}{2} ! r, \frac{1}{2} ! w, e ! \right. \\
& \left. \frac{t^8 tu C 2 r K 4 t K 4 u K 1}{2 (2 r C 1)}, i ! \right. \\
& \left. \frac{4 e r C 4 q w K 8 tu C 2 e C 2 o C 2 q C 2 r K 4 t K 4 u C 2 w C 1}{2 (2 o C 1)}, o ! \frac{1}{2}, q ! \right. \\
& \left. \frac{2 e r K 4 tu C e C r K 2 t K 2 u C w}{2 w C 1}, t ! \frac{1}{2}, u ! \frac{1}{2}, \frac{t^2 tu C r K t K u}{2 r C 1} ! e \right\}, \left\{ \right. \\
& \left. \frac{1}{2} ! o, \frac{1}{2} ! r, \frac{1}{2} ! w, e ! \frac{t^8 tu C 2 r K 4 t K 4 u K 1}{2 (2 r C 1)}, q ! \right. \\
& \left. \frac{2 e r K 4 tu C e C r K 2 t K 2 u C w}{2 w C 1}, t ! \frac{1}{2}, u ! \frac{1}{2}, \frac{t^2 tu C r K t K u}{2 r C 1} ! e, \right. \\
& \left. \frac{4 e r C 4 q w K 8 tu C 2 e C 2 o C 2 q C 2 r K 4 t K 4 u C 2 w C 1}{2 (2 o C 1)} ! i \right\}, \left\{ q = \right. \\
& \left. \frac{2 e r K 4 tu C e C r K 2 t K 2 u C w}{2 w C 1}, \frac{1}{2} ! r, \frac{1}{2} ! w, e ! \right. \\
& \left. \frac{t^8 tu C 2 r K 4 t K 4 u K 1}{2 (2 r C 1)}, i ! \frac{1}{2}, o ! \frac{1}{2}, t ! \frac{1}{2}, u ! \frac{1}{2}, \right. \\
& \left. \frac{t^2 tu C r K t K u}{2 r C 1} ! e \right\}, \left\{ q = \frac{2 e r K 4 tu C e C r K 2 t K 2 u C w}{2 w C 1}, \frac{1}{2} ! i, \frac{1}{2} \right.
\end{aligned}$$

$$\begin{aligned}
& ! o, \mathfrak{k} \frac{1}{2} ! r, \mathfrak{k} \frac{1}{2} ! w, e ! \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{\mathfrak{k}2tuCrKtKu}{2rC1} ! e \}, \left\{ \mathfrak{k} \frac{1}{2} ! r, \mathfrak{k} \frac{1}{2} ! w, e ! \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, i ! \right. \\
& \mathfrak{k} \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)}, o ! \mathfrak{k} \frac{1}{2}, t ! \\
& \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{\mathfrak{k}2tuCrKtKu}{2rC1} ! e, \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1} ! q \}, \\
& \left\{ i=i, o=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! r, \mathfrak{k} \frac{1}{2} ! w, e ! \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, t ! \mathfrak{k} \frac{1}{2}, u ! \right. \\
& \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{\mathfrak{k}2tuCrKtKu}{2rC1} ! e, \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1} ! q \}, \left\{ \mathfrak{k} \frac{1}{2} ! o, \right. \\
& \mathfrak{k} \frac{1}{2} ! r, \mathfrak{k} \frac{1}{2} ! w, e ! \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{\mathfrak{k}2tuCrKtKu}{2rC1} ! e, \mathfrak{k} \frac{2erK4tuCeCrK2tK2uCw}{2wC1} ! q, \\
& \mathfrak{k} \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)} ! i \}, \left\{ e= \right. \\
& \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, \mathfrak{k} \frac{1}{2} ! r, i ! \mathfrak{k} \frac{2qwCoCqCwC1}{2oC1}, o ! \mathfrak{k} \frac{1}{2}, q ! \\
& \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ e=\mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, i=i, o=\mathfrak{k} \frac{1}{2}, \right. \\
& \mathfrak{k} \frac{1}{2} ! r, q ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ e=\mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, \right. \\
& \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! r, q ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2qwCoCqCwC1}{2oC1} \\
& ! i \}, \left\{ e=\mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, q=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! r, i ! \mathfrak{k} \frac{1}{2}, o ! \mathfrak{k} \frac{1}{2}, t ! \right. \\
& \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ e=\mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, q=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} \right. \\
& ! o, \mathfrak{k} \frac{1}{2} ! r, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ e=\mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, \mathfrak{k} \frac{1}{2} \right. \\
& ! q, \mathfrak{k} \frac{1}{2} ! r, i ! \mathfrak{k} \frac{2qwCoCqCwC1}{2oC1}, o ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \\
& \left\{ e=\mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! q, \mathfrak{k} \frac{1}{2} ! r, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w \right. \\
& ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2qwCoCqCwC1}{2oC1} ! i \}, \left\{ e=\mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, q=q, w= \right. \\
& \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! r, i ! \mathfrak{k} \frac{1}{2}, o ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2} \}, \left\{ e= \right. \\
& \mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, q=q, w=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! r, t ! \mathfrak{k} \frac{1}{2}, u \\
& ! \mathfrak{k} \frac{1}{2} \}, \left\{ e=\mathfrak{k} \frac{\mathfrak{k}8tuC2rK4tK4uK1}{2(2rC1)}, \mathfrak{k} \frac{1}{2} ! r, \mathfrak{k} \frac{1}{2} ! w, i ! \right.
\end{aligned}$$

$$\begin{aligned}
& \left\{ e = \frac{k \frac{2qwCoCqCwC1}{2oC1}, o \neq \frac{1}{2}, q \neq \frac{1}{2}, t \neq \frac{1}{2}, u \neq \frac{1}{2} \right\}, \left\{ e = \right. \\
& \left. \frac{k \frac{k8tuC2rK4tK4uK1}{2(2rC1)}, \frac{1}{2} \neq o, \frac{1}{2} \neq r, \frac{1}{2} \neq w, q \neq \frac{1}{2}, t \neq \frac{1}{2}, u \neq \right. \\
& \left. \frac{1}{2}, \frac{k \frac{2qwCoCqCwC1}{2oC1} \neq i \right\}, \left\{ e = \frac{k \frac{k8tuC2rK4tK4uK1}{2(2rC1)}, q = \frac{1}{2}, \frac{1}{2} \neq r, \frac{1}{2} \neq w, i \neq \frac{1}{2}, o \neq \frac{1}{2}, t \neq \frac{1}{2}, u \neq \frac{1}{2} \right\}, \left\{ e = \right. \\
& \left. \frac{k \frac{k8tuC2rK4tK4uK1}{2(2rC1)}, q = \frac{1}{2}, \frac{1}{2} \neq i, \frac{1}{2} \neq o, \frac{1}{2} \neq r, \frac{1}{2} \neq w, t \neq \right. \\
& \left. \frac{1}{2}, u \neq \frac{1}{2} \right\}, \left\{ e = \frac{k \frac{k8tuC2rK4tK4uK1}{2(2rC1)}, \frac{1}{2} \neq q, \frac{1}{2} \neq r, \frac{1}{2} \neq w, i \neq \right. \\
& \left. \frac{k \frac{2qwCoCqCwC1}{2oC1}, o \neq \frac{1}{2}, t \neq \frac{1}{2}, u \neq \frac{1}{2} \right\}, \left\{ e = \right. \\
& \left. \frac{k \frac{k8tuC2rK4tK4uK1}{2(2rC1)}, i = i, o = \frac{1}{2}, \frac{1}{2} \neq q, \frac{1}{2} \neq r, \frac{1}{2} \neq w, t \neq \frac{1}{2}, u \right. \\
& \left. \neq \frac{1}{2} \right\}, \left\{ e = \frac{k \frac{k8tuC2rK4tK4uK1}{2(2rC1)}, \frac{1}{2} \neq o, \frac{1}{2} \neq q, \frac{1}{2} \neq r, \frac{1}{2} \neq w, t \right. \\
& \left. \neq \frac{1}{2}, u \neq \frac{1}{2}, \frac{k \frac{2qwCoCqCwC1}{2oC1} \neq i \right\}, \left\{ \frac{1}{2} \neq r, i \neq \right. \\
& \left. \frac{k \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)}, o \neq \frac{1}{2}, q \neq \right. \\
& \left. \frac{k \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, t \neq \frac{1}{2}, u \neq \frac{1}{2}, w \neq \frac{1}{2}, \right. \\
& \left. \frac{k \frac{k8tuC2rK4tK4uK1}{2(2rC1)} \neq e \right\}, \left\{ i = i, o = \frac{1}{2}, \frac{1}{2} \neq r, q \neq \right. \\
& \left. \frac{k \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, t \neq \frac{1}{2}, u \neq \frac{1}{2}, w \neq \frac{1}{2}, \right. \\
& \left. \frac{k \frac{k8tuC2rK4tK4uK1}{2(2rC1)} \neq e \right\}, \left\{ \frac{1}{2} \neq o, \frac{1}{2} \neq r, q \neq \right. \\
& \left. \frac{k \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, t \neq \frac{1}{2}, u \neq \frac{1}{2}, w \neq \frac{1}{2}, \right. \\
& \left. \frac{k \frac{k8tuC2rK4tK4uK1}{2(2rC1)} \neq e, \right. \\
& \left. \frac{k \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)} \neq i \right\}, \left\{ q = \right. \\
& \left. \frac{k \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, \frac{1}{2} \neq r, i \neq \frac{1}{2}, o \neq \frac{1}{2}, t \neq \frac{1}{2}, u \neq \frac{1}{2}, \right. \\
& \left. w \neq \frac{1}{2}, \frac{k \frac{k8tuC2rK4tK4uK1}{2(2rC1)} \neq e \right\}, \left\{ q = \right. \\
& \left. \frac{k \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, \frac{1}{2} \neq i, \frac{1}{2} \neq o, \frac{1}{2} \neq r, t \neq \frac{1}{2}, u \neq \frac{1}{2}, \right. \\
& \left. w \neq \frac{1}{2}, \frac{k \frac{k8tuC2rK4tK4uK1}{2(2rC1)} \neq e \right\}, \left\{ \frac{1}{2} \neq r, i \neq \right.
\end{aligned}$$

$$\begin{aligned}
& \vdash \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)}, o ! \vdash \frac{1}{2}, t ! \\
& \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2}, \vdash \frac{k8tuC2rK4tK4uK1}{2(2rC1)} ! e, \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1} ! q \}, \left\{ \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! r, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, w \right. \\
& ! \vdash \frac{1}{2}, \vdash \frac{k8tuC2rK4tK4uK1}{2(2rC1)} ! e, \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1} ! q, \\
& \vdash \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)} ! i \}, \left\{ q = q, w = \right. \\
& \vdash \frac{1}{2}, \vdash \frac{1}{2} ! r, i ! \vdash \frac{2erK4tuCeCoCrK2tK2u}{2oC1}, o ! \vdash \frac{1}{2}, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, \\
& \vdash \frac{k8tuC2rK4tK4uK1}{2(2rC1)} ! e \}, \left\{ i = i, o = \vdash \frac{1}{2}, q = q, w = \vdash \frac{1}{2}, \vdash \frac{1}{2} ! r, t ! \vdash \frac{1}{2}, u \right. \\
& ! \vdash \frac{1}{2}, \vdash \frac{k8tuC2rK4tK4uK1}{2(2rC1)} ! e \}, \left\{ q = q, w = \vdash \frac{1}{2}, \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! r, t ! \right. \\
& \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, \vdash \frac{k8tuC2rK4tK4uK1}{2(2rC1)} ! e, \\
& \vdash \frac{2erK4tuCeCoCrK2tK2u}{2oC1} ! i \}, \left\{ \vdash \frac{1}{2} ! r, \vdash \frac{1}{2} ! w, i ! \right. \\
& \vdash \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)}, o ! \vdash \frac{1}{2}, q ! \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, \\
& \vdash \frac{k8tuC2rK4tK4uK1}{2(2rC1)} ! e \}, \left\{ \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! r, \vdash \frac{1}{2} ! w, q ! \right. \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, t ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, \\
& \vdash \frac{k8tuC2rK4tK4uK1}{2(2rC1)} ! e, \\
& \vdash \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)} ! i \}, \left\{ q = \right. \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, \vdash \frac{1}{2} ! r, \vdash \frac{1}{2} ! w, i ! \vdash \frac{1}{2}, o ! \vdash \frac{1}{2}, t ! \\
& \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, \vdash \frac{k8tuC2rK4tK4uK1}{2(2rC1)} ! e \}, \left\{ q = \right. \\
& \vdash \frac{2erK4tuCeCrK2tK2uCw}{2wC1}, \vdash \frac{1}{2} ! i, \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! r, \vdash \frac{1}{2} ! w, t ! \\
& \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, \vdash \frac{k8tuC2rK4tK4uK1}{2(2rC1)} ! e \}, \left\{ \vdash \frac{1}{2} ! r, \vdash \frac{1}{2} ! w, i ! \right. \\
& \vdash \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)}, o ! \vdash \frac{1}{2}, t ! \\
& \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, \vdash \frac{k8tuC2rK4tK4uK1}{2(2rC1)} ! e,
\end{aligned}$$

$$\begin{aligned}
& \left\{ \frac{2erK4tuCeCrK2tK2uCw}{2wC1} \mid q \right\}, \left\{ i=i, o=\frac{1}{2}, \frac{1}{2} \mid r, \frac{1}{2} \mid w, t \mid \right. \\
& \left. \frac{1}{2}, u \mid \frac{1}{2}, \frac{1}{2}, \frac{1}{2} \frac{8tuC2rK4tK4uK1}{2(2rC1)} \mid e, \right. \\
& \left. \frac{2erK4tuCeCrK2tK2uCw}{2wC1} \mid q \right\}, \left\{ \frac{1}{2} \mid o, \frac{1}{2} \mid r, \frac{1}{2} \mid w, t \mid \frac{1}{2}, u \right. \\
& \left. \mid \frac{1}{2}, \frac{1}{2}, \frac{1}{2} \frac{8tuC2rK4tK4uK1}{2(2rC1)} \mid e, \frac{2erK4tuCeCrK2tK2uCw}{2wC1} \mid q, \right. \\
& \left. \frac{4erC4qwK8tuC2eC2oC2qC2rK4tK4uC2wC1}{2(2oC1)} \mid i \right\}, \left\{ t=\frac{1}{2}, e \mid \right. \\
& \left. \frac{1}{2}, i \mid \frac{4erC4qwC2eC2oC2qC2rC2wC3}{2(2oC1)}, o \mid \frac{1}{2}, q \mid \right. \\
& \left. \frac{2erCeCrCwC1}{2wC1}, r \mid \frac{1}{2}, u \mid \frac{1}{2}, w \mid \frac{1}{2} \right\}, \left\{ i=i, o=\frac{1}{2}, t=\frac{1}{2}, e \mid \right. \\
& \left. \frac{1}{2}, q \mid \frac{2erCeCrCwC1}{2wC1}, r \mid \frac{1}{2}, u \mid \frac{1}{2}, w \mid \frac{1}{2} \right\}
\end{aligned}$$

> solve(0 ! p3 Op4)

Warning, returning only the first 100 solutions, increase
MaxSols to see more solutions

$$\begin{aligned}
& \left\{ e \mid \frac{4qwC2qK4rC2wK1}{4(2rC1)}, i \right. \\
& \left. \mid \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)}, o \mid \frac{1}{2}, q \mid \right. \\
& \left. \frac{1}{2}, r \mid \frac{1}{2}, t \mid \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, u \mid \frac{1}{2}, w \mid \frac{1}{2}, \right. \\
& \left. \frac{2qwCqKrCw}{2rC1} \mid e \right\}, \left\{ i=i, o=\frac{1}{2}, e \mid \frac{4qwC2qK4rC2wK1}{4(2rC1)}, q \mid \frac{1}{2}, r \right. \\
& \left. \mid \frac{1}{2}, t \mid \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, u \mid \frac{1}{2}, w \mid \frac{1}{2}, \right. \\
& \left. \frac{2qwCqKrCw}{2rC1} \mid e \right\}, \left\{ \frac{1}{2} \mid o, e \mid \frac{4qwC2qK4rC2wK1}{4(2rC1)}, q \mid \frac{1}{2}, r \mid \right. \\
& \left. \frac{1}{2}, t \mid \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, u \mid \frac{1}{2}, w \mid \frac{1}{2}, \right. \\
& \left. \frac{2qwCqKrCw}{2rC1} \mid e, \right. \\
& \left. \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)} \mid i \right\}, \left\{ t \right. \\
& = \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, e \mid \frac{4qwC2qK4rC2wK1}{4(2rC1)}, i \mid \frac{1}{2}, o \\
& \left. \mid \frac{1}{2}, q \mid \frac{1}{2}, r \mid \frac{1}{2}, u \mid \frac{1}{2}, w \mid \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \mid e \right\}, \left\{ t \right. \\
& = \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, \frac{1}{2} \mid i, \frac{1}{2} \mid o, e
\end{aligned}$$

(23)

$$\begin{aligned}
& ! \frac{4qwC2qK4rC2wK1}{4(2rC1)}, q ! \frac{1}{2}, r ! \frac{1}{2}, u ! \frac{1}{2}, w ! \frac{1}{2}, \\
& \frac{2qwCqKrCw}{2rC1} ! e \}, \left\{ e ! \frac{4qwC2qK4rC2wK1}{4(2rC1)}, i \right. \\
& ! \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)}, o ! \frac{1}{2}, q ! \\
& \frac{1}{2}, r ! \frac{1}{2}, u ! \frac{1}{2}, w ! \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} ! e, \\
& \frac{4erK2qwC2eKqC2rKuKw}{2uC1} ! t \}, \left\{ \frac{1}{2} ! o, e \right. \\
& ! \frac{4qwC2qK4rC2wK1}{4(2rC1)}, q ! \frac{1}{2}, r ! \frac{1}{2}, u ! \frac{1}{2}, w ! \frac{1}{2}, \\
& \frac{2qwCqKrCw}{2rC1} ! e, \frac{4erK2qwC2eKqC2rKuKw}{2uC1} ! t, \\
& \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)} ! i \}, \left\{ t=t, u=\frac{1}{2}, \right. \\
& e ! \frac{4qwC2qK4rC2wK1}{4(2rC1)}, i ! \frac{4erK2qwC2eKoKqC2rKw}{2oC1}, o ! \frac{1}{2}, \\
& q ! \frac{1}{2}, r ! \frac{1}{2}, w ! \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} ! e \}, \left\{ t=t, u=\frac{1}{2}, \frac{1}{2} ! o, e \right. \\
& ! \frac{4qwC2qK4rC2wK1}{4(2rC1)}, q ! \frac{1}{2}, r ! \frac{1}{2}, w ! \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \\
& ! e, \frac{4erK2qwC2eKoKqC2rKw}{2oC1} ! i \}, \left\{ \frac{1}{2} ! u, e \right. \\
& ! \frac{4qwC2qK4rC2wK1}{4(2rC1)}, i \\
& ! \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)}, o ! \frac{1}{2}, q ! \\
& \frac{1}{2}, r ! \frac{1}{2}, t ! \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, w ! \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \\
& ! e \}, \left\{ \frac{1}{2} ! o, \frac{1}{2} ! u, e ! \frac{4qwC2qK4rC2wK1}{4(2rC1)}, q ! \frac{1}{2}, r ! \frac{1}{2}, t \right. \\
& ! \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, w ! \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} ! e, \\
& \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)} ! i \}, \left\{ t \right. \\
& = \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, \frac{1}{2} ! u, e ! \frac{4qwC2qK4rC2wK1}{4(2rC1)}, i \\
& ! \frac{1}{2}, o ! \frac{1}{2}, q ! \frac{1}{2}, r ! \frac{1}{2}, w ! \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} ! e \}, \left\{ t \right. \\
& = \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, \frac{1}{2} ! i, \frac{1}{2} ! o, \frac{1}{2} ! u, e \\
& ! \frac{4qwC2qK4rC2wK1}{4(2rC1)}, q ! \frac{1}{2}, r ! \frac{1}{2}, w ! \frac{1}{2}, \frac{2qwCqKrCw}{2rC1}
\end{aligned}$$

$$\begin{aligned}
& ! e \}, \left\{ \mathfrak{k} \frac{1}{2} ! u, e ! \frac{4qwC2qK4rC2wK1}{4(2rC1)}, i \right. \\
& ! \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)}, o ! \mathfrak{k} \frac{1}{2}, q ! \\
& \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} ! e, \\
& \frac{4erK2qwC2eKqC2rKuKw}{2uC1} ! t \}, \left\{ i=i, o=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! u, e \right. \\
& ! \frac{4qwC2qK4rC2wK1}{4(2rC1)}, q ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \\
& ! e, \frac{4erK2qwC2eKqC2rKuKw}{2uC1} ! t \}, \left\{ \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! u, e \right. \\
& ! \frac{4qwC2qK4rC2wK1}{4(2rC1)}, q ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \\
& ! e, \frac{4erK2qwC2eKqC2rKuKw}{2uC1} ! t, \\
& \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)} ! i \}, \left\{ e \right. \\
& = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, i ! \mathfrak{k} \frac{2tuCoCtCuC1}{2oC1}, o ! \mathfrak{k} \frac{1}{2}, q ! \mathfrak{k} \frac{1}{2}, r ! \\
& \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ e = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, i=i, o=\mathfrak{k} \frac{1}{2}, q \right. \\
& ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ e = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, \right. \\
& \mathfrak{k} \frac{1}{2} ! o, q ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2tuCoCtCuC1}{2oC1} \\
& ! i \}, \left\{ e = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, t=\mathfrak{k} \frac{1}{2}, i ! \mathfrak{k} \frac{1}{2}, o ! \mathfrak{k} \frac{1}{2}, q ! \mathfrak{k} \frac{1}{2}, r ! \right. \\
& \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ e = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, t=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} \right. \\
& ! o, q ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ e = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, \mathfrak{k} \frac{1}{2} \right. \\
& ! t, i ! \mathfrak{k} \frac{2tuCoCtCuC1}{2oC1}, o ! \mathfrak{k} \frac{1}{2}, q ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ e \right. \\
& = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! t, q ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \\
& \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2tuCoCtCuC1}{2oC1} ! i \}, \left\{ e = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, t=t, u=\mathfrak{k} \frac{1}{2}, i ! \right. \\
& \mathfrak{k} \frac{1}{2}, o ! \mathfrak{k} \frac{1}{2}, q ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ e = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, t=t, u \right. \\
& = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} ! o, q ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ e \right. \\
& = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, \mathfrak{k} \frac{1}{2} ! u, i ! \mathfrak{k} \frac{2tuCoCtCuC1}{2oC1}, o ! \mathfrak{k} \frac{1}{2}, q !
\end{aligned}$$

$$\begin{aligned} & \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, t \right\} \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2} \right\}, \left\{ e = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, \left\{ \frac{1}{2} \right\} \right\} o, \left\{ \frac{1}{2} \right\} \\ & \left\{ u, q \right\} \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, t \right\} \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2} \right\}, \left\{ e = \frac{2tuCoCtCuC1}{2oC1} \right\} i \}, \left\{ e \right. \\ & = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, t = \left\{ \frac{1}{2}, \left\{ \frac{1}{2} \right\} \right\} u, i \left\{ \frac{1}{2}, o \right\} \left\{ \frac{1}{2}, q \right\} \left\{ \frac{1}{2}, r \right\} \\ & \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2} \right\}, \left\{ e = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, t = \left\{ \frac{1}{2}, \left\{ \frac{1}{2} \right\} \right\} i, \left\{ \frac{1}{2} \right\} \right\} o, \left\{ \frac{1}{2} \right\} \\ & \left\{ u, q \right\} \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2} \right\}, \left\{ e = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, \left\{ \frac{1}{2} \right\} \right\} t, \left\{ \frac{1}{2} \right\} \\ & \left\{ u, i \right\} \left\{ \frac{2tuCoCtCuC1}{2oC1}, o \right\} \left\{ \frac{1}{2}, q \right\} \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2} \right\}, \left\{ e \right. \\ & = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, i = i, o = \left\{ \frac{1}{2}, \left\{ \frac{1}{2} \right\} \right\} t, \left\{ \frac{1}{2} \right\} \right\} u, q \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, w \right\} \\ & \left\{ \frac{1}{2} \right\}, \left\{ e = \frac{4qwC2qK4rC2wK1}{4(2rC1)}, \left\{ \frac{1}{2} \right\} \right\} o, \left\{ \frac{1}{2} \right\} \right\} t, \left\{ \frac{1}{2} \right\} \right\} u, q \left\{ \frac{1}{2}, r \right\} \\ & \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2} \right\}, \left\{ e = \frac{2tuCoCtCuC1}{2oC1} \right\} i \}, \left\{ i \right. \\ & \left\{ \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)}, o \right\} \left\{ \frac{1}{2}, q \right\} \\ & \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, t \right\} \left\{ \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, u \right\} \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2}, \right. \\ & \left. \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} e \}, \left\{ i = i, o = \left\{ \frac{1}{2}, q \right\} \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, t \right\} \right. \\ & \left. \left\{ \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, u \right\} \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2}, \right. \right. \\ & \left. \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} e \}, \left\{ \left\{ \frac{1}{2} \right\} \right\} o, q \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, t \right\} \\ & \left. \left\{ \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, u \right\} \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2}, \right. \right. \\ & \left. \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} e, \\ & \left. \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)} \right\} i \}, \left\{ t \right. \\ & = \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, i \left\{ \frac{1}{2}, o \right\} \left\{ \frac{1}{2}, q \right\} \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, u \right\} \\ & \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2}, \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} e \}, \left\{ t \right. \\ & = \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, \left\{ \frac{1}{2} \right\} \right\} i, \left\{ \frac{1}{2} \right\} \right\} o, q \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, u \right\} \\ & \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2}, \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} e \}, \left\{ i \right. \\ & \left. \left\{ \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)}, o \right\} \left\{ \frac{1}{2}, q \right\} \right\} \end{aligned}$$

$$\begin{aligned}
& \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, u \right\} \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2}, \frac{4erK2qwC2eKqC2rKuKw}{2uC1} \right\} \left\{ t, \right. \\
& \left. \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} \left\{ \frac{1}{2} \right\} \left\{ o, q \right\} \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, u \right\} \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2}, \right. \\
& \left. \frac{4erK2qwC2eKqC2rKuKw}{2uC1} \right\} \left\{ t, \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} \left\{ e, \right. \\
& \left. \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)} \right\} \left\{ i \right\}, \left\{ t=t, u=\frac{1}{2}, i \right. \\
& \left. \right\} \left\{ \frac{4erK2qwC2eKoKqC2rKw}{2oC1}, o \right\} \left\{ \frac{1}{2}, q \right\} \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2}, \right. \\
& \left. \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} \left\{ e \right\}, \left\{ i=i, o=\frac{1}{2}, t=t, u=\frac{1}{2}, q \right\} \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, w \right. \\
& \left. \right\} \left\{ \frac{1}{2}, \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} \left\{ e \right\}, \left\{ t=t, u=\frac{1}{2}, \frac{1}{2} \right\} \left\{ o, q \right\} \left\{ \frac{1}{2}, r \right\} \\
& \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2}, \frac{4erK2qwC2eKoKqC2rKw}{2oC1} \right\} \left\{ i, \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right. \\
& \left. \right\} \left\{ e \right\}, \left\{ \frac{1}{2} \right\} \left\{ u, i \right. \\
& \left. \right\} \left\{ \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)}, o \right\} \left\{ \frac{1}{2}, q \right\} \\
& \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, t \right\} \left\{ \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, w \right\} \left\{ \frac{1}{2}, \right. \\
& \left. \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} \left\{ e \right\}, \left\{ \frac{1}{2} \right\} \left\{ o, \frac{1}{2} \right\} \left\{ u, q \right\} \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, t \right. \\
& \left. \right\} \left\{ \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, w \right\} \left\{ \frac{1}{2}, \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} \left\{ e, \right. \\
& \left. \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)} \right\} \left\{ i \right\}, \left\{ t \right. \\
& = \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, \left\{ \frac{1}{2} \right\} \left\{ u, i \right\} \left\{ \frac{1}{2}, o \right\} \left\{ \frac{1}{2}, q \right\} \left\{ \frac{1}{2}, r \right\} \\
& \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2}, \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} \left\{ e \right\}, \left\{ t \right. \\
& = \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, \left\{ \frac{1}{2} \right\} \left\{ i, \frac{1}{2} \right\} \left\{ o, \frac{1}{2} \right\} \left\{ u, q \right\} \left\{ \frac{1}{2}, r \right\} \\
& \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2}, \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} \left\{ e \right\}, \left\{ \frac{1}{2} \right\} \left\{ u, i \right. \\
& \left. \right\} \left\{ \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)}, o \right\} \left\{ \frac{1}{2}, q \right\} \\
& \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, w \right\} \left\{ \frac{1}{2}, \frac{4erK2qwC2eKqC2rKuKw}{2uC1} \right\} \left\{ t, \right. \\
& \left. \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} \left\{ e \right\}, \left\{ i=i, o=\frac{1}{2}, \frac{1}{2} \right\} \left\{ u, q \right\} \left\{ \frac{1}{2}, r \right\} \left\{ \frac{1}{2}, w \right. \\
& \left. \right\} \left\{ \frac{1}{2}, \frac{4erK2qwC2eKqC2rKuKw}{2uC1} \right\} \left\{ t, \frac{4qwC2qK4rC2wK1}{4(2rC1)} \right\} \left\{ e \right\}, \left\{ \right.
\end{aligned}$$

$$\begin{aligned}
& \mathfrak{k} \frac{1}{2} \mathfrak{!} o, \mathfrak{k} \frac{1}{2} \mathfrak{!} u, q \mathfrak{!} \mathfrak{k} \frac{1}{2}, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2}, \\
& \frac{4erK2qwC2eKqC2rKuKw}{2uC1} \mathfrak{!} t, \frac{4qwC2qK4rC2wK1}{4(2rC1)} \mathfrak{!} e, \\
& \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)} \mathfrak{!} i \Big\}, \Big\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \\
& \mathfrak{!} e, i \mathfrak{!} \frac{4erK2tuC2eKoC2rKtKu}{2oC1}, o \mathfrak{!} \mathfrak{k} \frac{1}{2}, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, t \\
& \mathfrak{!} \frac{8erC4eC4rK2uC1}{2(2uC1)}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2} \Big\}, \Big\{ i = i, o = \mathfrak{k} \frac{1}{2}, q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} e, \\
& r \mathfrak{!} \mathfrak{k} \frac{1}{2}, t \mathfrak{!} \frac{8erC4eC4rK2uC1}{2(2uC1)}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2} \Big\}, \Big\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} e, \\
& \mathfrak{k} \frac{1}{2} \mathfrak{!} o, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, t \mathfrak{!} \frac{8erC4eC4rK2uC1}{2(2uC1)}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2}, \\
& \frac{4erK2tuC2eKoC2rKtKu}{2oC1} \mathfrak{!} i \Big\}, \Big\{ q = \mathfrak{k} \frac{1}{2}, t = \frac{8erC4eC4rK2uC1}{2(2uC1)}, \\
& \mathfrak{k} \frac{1}{2} \mathfrak{!} e, i \mathfrak{!} \mathfrak{k} \frac{1}{2}, o \mathfrak{!} \mathfrak{k} \frac{1}{2}, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2} \Big\}, \Big\{ q = \mathfrak{k} \frac{1}{2}, t \\
& = \frac{8erC4eC4rK2uC1}{2(2uC1)}, \mathfrak{k} \frac{1}{2} \mathfrak{!} e, \mathfrak{k} \frac{1}{2} \mathfrak{!} i, \mathfrak{k} \frac{1}{2} \mathfrak{!} o, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \\
& \mathfrak{k} \frac{1}{2} \Big\}, \Big\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} e, i \mathfrak{!} \frac{4erK2tuC2eKoC2rKtKu}{2oC1}, o \mathfrak{!} \mathfrak{k} \frac{1}{2}, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, \\
& u \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2}, \frac{8erC4eC4rK2uC1}{2(2uC1)} \mathfrak{!} t \Big\}, \Big\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} e, \mathfrak{k} \frac{1}{2} \mathfrak{!} o, r \\
& \mathfrak{!} \mathfrak{k} \frac{1}{2}, u \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2}, \frac{4erK2tuC2eKoC2rKtKu}{2oC1} \mathfrak{!} i, \\
& \frac{8erC4eC4rK2uC1}{2(2uC1)} \mathfrak{!} t \Big\}, \Big\{ q = \mathfrak{k} \frac{1}{2}, t = t, u = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} e, i \\
& \mathfrak{!} \frac{8erC4eK2oC4rC1}{2(2oC1)}, o \mathfrak{!} \mathfrak{k} \frac{1}{2}, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2} \Big\}, \Big\{ i = i, o = \mathfrak{k} \frac{1}{2}, q = \mathfrak{k} \frac{1}{2}, t \\
& = t, u = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} e, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2} \Big\}, \Big\{ q = \mathfrak{k} \frac{1}{2}, t = t, u = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} e, \mathfrak{k} \frac{1}{2} \\
& \mathfrak{!} o, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2}, \frac{8erC4eK2oC4rC1}{2(2oC1)} \mathfrak{!} i \Big\}, \Big\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} e, \mathfrak{k} \frac{1}{2} \\
& \mathfrak{!} u, i \mathfrak{!} \frac{4erK2tuC2eKoC2rKtKu}{2oC1}, o \mathfrak{!} \mathfrak{k} \frac{1}{2}, r \mathfrak{!} \mathfrak{k} \frac{1}{2}, t \\
& \mathfrak{!} \frac{8erC4eC4rK2uC1}{2(2uC1)}, w \mathfrak{!} \mathfrak{k} \frac{1}{2} \Big\}, \Big\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \mathfrak{!} e, \mathfrak{k} \frac{1}{2} \mathfrak{!} o, \mathfrak{k} \frac{1}{2} \mathfrak{!} u, r \mathfrak{!} \\
& \mathfrak{k} \frac{1}{2}, t \mathfrak{!} \frac{8erC4eC4rK2uC1}{2(2uC1)}, w \mathfrak{!} \mathfrak{k} \frac{1}{2}, \frac{4erK2tuC2eKoC2rKtKu}{2oC1} \\
& \mathfrak{!} i \Big\}, \Big\{ q = \mathfrak{k} \frac{1}{2}, t = \frac{8erC4eC4rK2uC1}{2(2uC1)}, \mathfrak{k} \frac{1}{2} \mathfrak{!} e, \mathfrak{k} \frac{1}{2} \mathfrak{!} u, i \mathfrak{!} \mathfrak{k} \frac{1}{2}, o \mathfrak{!} \mathfrak{k} \frac{1}{2}, \\
& r \mathfrak{!} \mathfrak{k} \frac{1}{2}, w \mathfrak{!} \mathfrak{k} \frac{1}{2} \Big\}, \Big\{ q = \mathfrak{k} \frac{1}{2}, t = \frac{8erC4eC4rK2uC1}{2(2uC1)}, \mathfrak{k} \frac{1}{2} \mathfrak{!} e, \mathfrak{k} \frac{1}{2} \mathfrak{!} i, \mathfrak{k} \frac{1}{2}
\end{aligned}$$

$$\begin{aligned}
& \{ o, \textstyle\frac{1}{2} \mid u, r \mid \textstyle\frac{1}{2}, w \mid \textstyle\frac{1}{2} \}, \left\{ q = \textstyle\frac{1}{2}, \textstyle\frac{1}{2} \mid e, \textstyle\frac{1}{2} \mid u, i \right. \\
& \mid \frac{4erK2tuC2eKoC2rKtKu}{2oC1}, o \mid \textstyle\frac{1}{2}, r \mid \textstyle\frac{1}{2}, w \mid \textstyle\frac{1}{2}, \\
& \left. \frac{8erC4eC4rK2uC1}{2(2uC1)} \mid t \right\}, \left\{ i = i, o = \textstyle\frac{1}{2}, q = \textstyle\frac{1}{2}, \textstyle\frac{1}{2} \mid e, \textstyle\frac{1}{2} \mid u, r \mid \textstyle\frac{1}{2}, \right. \\
& w \mid \textstyle\frac{1}{2}, \frac{8erC4eC4rK2uC1}{2(2uC1)} \mid t \left. \right\}, \left\{ q = \textstyle\frac{1}{2}, \textstyle\frac{1}{2} \mid e, \textstyle\frac{1}{2} \mid o, \textstyle\frac{1}{2} \mid u, r \right. \\
& \mid \textstyle\frac{1}{2}, w \mid \textstyle\frac{1}{2}, \frac{4erK2tuC2eKoC2rKtKu}{2oC1} \mid i, \frac{8erC4eC4rK2uC1}{2(2uC1)} \\
& \mid t \left. \right\}, \left\{ \textstyle\frac{1}{2} \mid q, i \right. \\
& \mid \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)}, o \mid \textstyle\frac{1}{2}, r \mid \\
& \textstyle\frac{1}{2}, t \mid \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, u \mid \textstyle\frac{1}{2}, w \mid \textstyle\frac{1}{2}, \\
& \frac{2qwCqKrCw}{2rC1} \mid e \left. \right\}, \left\{ i = i, o = \textstyle\frac{1}{2}, \textstyle\frac{1}{2} \mid q, r \mid \textstyle\frac{1}{2}, t \right. \\
& \mid \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, u \mid \textstyle\frac{1}{2}, w \mid \textstyle\frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \mid e \left. \right\} \\
& , \left\{ \textstyle\frac{1}{2} \mid o, \textstyle\frac{1}{2} \mid q, r \mid \textstyle\frac{1}{2}, t \mid \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, u \mid \textstyle\frac{1}{2}, w \right. \\
& \mid \textstyle\frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \mid e, \\
& \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)} \mid i \left. \right\}, \left\{ t \right. \\
& = \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, \textstyle\frac{1}{2} \mid q, i \mid \textstyle\frac{1}{2}, o \mid \textstyle\frac{1}{2}, r \mid \textstyle\frac{1}{2}, u \mid \\
& \textstyle\frac{1}{2}, w \mid \textstyle\frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \mid e \left. \right\}, \left\{ t = \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, \right. \\
& \textstyle\frac{1}{2} \mid i, \textstyle\frac{1}{2} \mid o, \textstyle\frac{1}{2} \mid q, r \mid \textstyle\frac{1}{2}, u \mid \textstyle\frac{1}{2}, w \mid \textstyle\frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \mid e \left. \right\}, \left\{ \right. \\
& \textstyle\frac{1}{2} \mid q, i \mid \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)}, o \mid \\
& \textstyle\frac{1}{2}, r \mid \textstyle\frac{1}{2}, u \mid \textstyle\frac{1}{2}, w \mid \textstyle\frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \mid e, \\
& \frac{4erK2qwC2eKqC2rKuKw}{2uC1} \mid t \left. \right\}, \left\{ \textstyle\frac{1}{2} \mid o, \textstyle\frac{1}{2} \mid q, r \mid \textstyle\frac{1}{2}, u \mid \textstyle\frac{1}{2}, w \right. \\
& \mid \textstyle\frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \mid e, \frac{4erK2qwC2eKqC2rKuKw}{2uC1} \mid t, \\
& \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)} \mid i \left. \right\}, \left\{ t = t, u = \textstyle\frac{1}{2}, \right. \\
& \textstyle\frac{1}{2} \mid q, i \mid \frac{4erK2qwC2eKoKqC2rKw}{2oC1}, o \mid \textstyle\frac{1}{2}, r \mid \textstyle\frac{1}{2}, w \mid \textstyle\frac{1}{2},
\end{aligned}$$

$$\begin{aligned}
& \frac{2qwCqKrCw}{2rC1} \neq e \}, \left\{ i=i, o=\frac{1}{2}, t=t, u=\frac{1}{2}, \frac{1}{2} \neq q, r \neq \frac{1}{2}, w \neq \frac{1}{2}, \right. \\
& \frac{2qwCqKrCw}{2rC1} \neq e \}, \left\{ t=t, u=\frac{1}{2}, \frac{1}{2} \neq o, \frac{1}{2} \neq q, r \neq \frac{1}{2}, w \neq \frac{1}{2}, \right. \\
& \frac{2qwCqKrCw}{2rC1} \neq e, \frac{4erK2qwC2eKoKqC2rKw}{2oC1} \neq i \}, \left\{ \frac{1}{2} \neq q, \frac{1}{2} \right. \\
& \neq u, i \neq \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)}, o \neq \frac{1}{2}, r \\
& \neq \frac{1}{2}, t \neq \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, w \neq \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \neq e \} \\
& , \left\{ \frac{1}{2} \neq o, \frac{1}{2} \neq q, \frac{1}{2} \neq u, r \neq \frac{1}{2}, t \neq \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, w \right. \\
& \neq \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \neq e, \\
& \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)} \neq i \}, \left\{ t \right. \\
& = \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, \frac{1}{2} \neq q, \frac{1}{2} \neq u, i \neq \frac{1}{2}, o \neq \frac{1}{2}, r \neq \\
& \frac{1}{2}, w \neq \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \neq e \}, \left\{ t = \frac{4erK2qwC2eKqC2rKuKw}{2uC1}, \right. \\
& \frac{1}{2} \neq i, \frac{1}{2} \neq o, \frac{1}{2} \neq q, \frac{1}{2} \neq u, r \neq \frac{1}{2}, w \neq \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \neq e \}, \left\{ \right. \\
& \frac{1}{2} \neq q, \frac{1}{2} \neq u, i \\
& \neq \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)}, o \neq \frac{1}{2}, r \neq \\
& \frac{1}{2}, w \neq \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \neq e, \frac{4erK2qwC2eKqC2rKuKw}{2uC1} \neq t \}, \left\{ i \right. \\
& = i, o = \frac{1}{2}, \frac{1}{2} \neq q, \frac{1}{2} \neq u, r \neq \frac{1}{2}, w \neq \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \neq e, \\
& \frac{4erK2qwC2eKqC2rKuKw}{2uC1} \neq t \}, \left\{ \frac{1}{2} \neq o, \frac{1}{2} \neq q, \frac{1}{2} \neq u, r \neq \frac{1}{2}, w \right. \\
& \neq \frac{1}{2}, \frac{2qwCqKrCw}{2rC1} \neq e, \frac{4erK2qwC2eKqC2rKuKw}{2uC1} \neq t, \\
& \frac{8erK4qwK4tuC4eK2oK2qC4rK2tK2uK2wK1}{2(2oC1)} \neq i \}, \left\{ e=e, r=\frac{1}{2}, \right. \\
& i \neq \frac{4qwC4tuC2oC2qC2tC2uC2wC3}{2(2oC1)}, o \neq \frac{1}{2}, q \neq \frac{1}{2}, t \neq \\
& \frac{2qwCqCuCwC1}{2uC1}, u \neq \frac{1}{2}, w \neq \frac{1}{2} \}, \left\{ e=e, i=i, o=\frac{1}{2}, r=\frac{1}{2}, q \neq \frac{1}{2}, \right. \\
& t \neq \frac{2qwCqCuCwC1}{2uC1}, u \neq \frac{1}{2}, w \neq \frac{1}{2} \}, \left\{ e=e, r=\frac{1}{2}, \frac{1}{2} \neq o, q \neq \frac{1}{2}, \right. \\
& t \neq \frac{2qwCqCuCwC1}{2uC1}, u \neq \frac{1}{2}, w \neq \frac{1}{2},
\end{aligned}$$

$$\begin{aligned}
& \vdash \frac{4qwC4tuC2oC2qC2tC2uC2wC3}{2(2oC1)} \vdash i \}, \{e=e, r=\vdash \frac{1}{2}, t= \\
& \vdash \frac{2qwCqCuCwC1}{2uC1}, i \vdash \vdash \frac{1}{2}, o \vdash \vdash \frac{1}{2}, q \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2} \}, \{e=e, r= \\
& \vdash \frac{1}{2}, t=\vdash \frac{2qwCqCuCwC1}{2uC1}, \vdash \frac{1}{2} \vdash i, \vdash \frac{1}{2} \vdash o, q \vdash \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2} \}, \\
& \{e=e, r=\vdash \frac{1}{2}, i \vdash \vdash \frac{4qwC4tuC2oC2qC2tC2uC2wC3}{2(2oC1)}, o \vdash \vdash \frac{1}{2}, q \vdash \\
& \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2}, \vdash \frac{2qwCqCuCwC1}{2uC1} \vdash t \}, \{e=e, r=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash o, q \vdash \\
& \vdash \frac{1}{2}, u \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2}, \vdash \frac{2qwCqCuCwC1}{2uC1} \vdash t, \\
& \vdash \frac{4qwC4tuC2oC2qC2tC2uC2wC3}{2(2oC1)} \vdash i \}, \{e=e, r=\vdash \frac{1}{2}, t=t, u=\vdash \frac{1}{2}, i \\
& \vdash \vdash \frac{2qwCoCqCwC1}{2oC1}, o \vdash \vdash \frac{1}{2}, q \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2} \}, \{e=e, i=i, o=\vdash \frac{1}{2}, r= \\
& \vdash \frac{1}{2}, t=t, u=\vdash \frac{1}{2}, q \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2} \}, \{e=e, r=\vdash \frac{1}{2}, t=t, u=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash o, q \vdash \\
& \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2}, \vdash \frac{2qwCoCqCwC1}{2oC1} \vdash i \}, \{e=e, r=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash u, i \vdash \\
& \vdash \frac{4qwC4tuC2oC2qC2tC2uC2wC3}{2(2oC1)}, o \vdash \vdash \frac{1}{2}, q \vdash \vdash \frac{1}{2}, t \vdash \\
& \vdash \frac{2qwCqCuCwC1}{2uC1}, w \vdash \vdash \frac{1}{2} \}, \{e=e, r=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash o, \vdash \frac{1}{2} \vdash u, q \vdash \vdash \frac{1}{2}, t \vdash \\
& \vdash \frac{2qwCqCuCwC1}{2uC1}, w \vdash \vdash \frac{1}{2}, \vdash \frac{4qwC4tuC2oC2qC2tC2uC2wC3}{2(2oC1)} \\
& \vdash i \}, \{e=e, r=\vdash \frac{1}{2}, t=\vdash \frac{2qwCqCuCwC1}{2uC1}, \vdash \frac{1}{2} \vdash u, i \vdash \vdash \frac{1}{2}, o \vdash \vdash \frac{1}{2}, q \vdash \\
& \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2} \}, \{e=e, r=\vdash \frac{1}{2}, t=\vdash \frac{2qwCqCuCwC1}{2uC1}, \vdash \frac{1}{2} \vdash i, \vdash \frac{1}{2} \vdash o, \vdash \frac{1}{2} \\
& \vdash u, q \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2} \}, \{e=e, r=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash u, i \vdash \\
& \vdash \frac{4qwC4tuC2oC2qC2tC2uC2wC3}{2(2oC1)}, o \vdash \vdash \frac{1}{2}, q \vdash \vdash \frac{1}{2}, w \vdash \vdash \frac{1}{2}, \\
& \vdash \frac{2qwCqCuCwC1}{2uC1} \vdash t \}, \{e=e, i=i, o=\vdash \frac{1}{2}, r=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash u, q \vdash \vdash \frac{1}{2}, w \vdash \\
& \vdash \frac{1}{2}, \vdash \frac{2qwCqCuCwC1}{2uC1} \vdash t \}, \{e=e, r=\vdash \frac{1}{2}, \vdash \frac{1}{2} \vdash o, \vdash \frac{1}{2} \vdash u, q \vdash \vdash \frac{1}{2}, w \vdash \\
& \vdash \frac{1}{2}, \vdash \frac{2qwCqCuCwC1}{2uC1} \vdash t, \vdash \frac{4qwC4tuC2oC2qC2tC2uC2wC3}{2(2oC1)} \\
& \vdash i \}
\end{aligned}$$



>

> solve(0 ! p4 ! p)

Warning, returning only the first 100 solutions, increase
MaxSols to see more solutions

$$\left\{ e ! \frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)}, o ! \frac{1}{2}, q ! \right. \quad (24)$$
$$\left. \frac{1}{2}, r ! \frac{1}{2}, t ! \frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, u ! \frac{1}{2}, w ! \frac{1}{2}, \right.$$
$$\left. \frac{k2qwCoKqKw}{2oC1} ! i \right\}, \left\{ e=e, r=\frac{1}{2}, o ! \frac{1}{2}, q ! \frac{1}{2}, t ! \right.$$
$$\frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, u ! \frac{1}{2}, w ! \frac{1}{2}, \frac{k2qwCoKqKw}{2oC1}$$
$$! i \right\}, \left\{ \frac{1}{2} ! r, o ! \frac{1}{2}, q ! \frac{1}{2}, t ! \frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, u ! \right.$$
$$\frac{1}{2}, w ! \frac{1}{2}, \frac{k2qwCoKqKw}{2oC1} ! i,$$
$$\frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)} ! e \right\}, \left\{ t= \right.$$
$$\frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, e ! \frac{1}{2}, o ! \frac{1}{2}, q ! \frac{1}{2}, r ! \frac{1}{2}, u !$$
$$\frac{1}{2}, w ! \frac{1}{2}, \frac{k2qwCoKqKw}{2oC1} ! i \right\}, \left\{ t= \right.$$
$$\frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, \frac{1}{2} ! e, \frac{1}{2} ! r, o ! \frac{1}{2}, q ! \frac{1}{2}, u !$$
$$\frac{1}{2}, w ! \frac{1}{2}, \frac{k2qwCoKqKw}{2oC1} ! i \right\}, \left\{ e ! \right.$$
$$\frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)}, o ! \frac{1}{2}, q !$$
$$\frac{1}{2}, r ! \frac{1}{2}, u ! \frac{1}{2}, w ! \frac{1}{2}, \frac{k2qwCoKqKw}{2oC1} ! i,$$
$$\frac{2ioK4qwCiCoK2qCuK2w}{2uC1} ! t \right\}, \left\{ \frac{1}{2} ! r, o ! \frac{1}{2}, q ! \frac{1}{2}, u ! \frac{1}{2}, \right.$$
$$w ! \frac{1}{2}, \frac{k2qwCoKqKw}{2oC1} ! i, \frac{2ioK4qwCiCoK2qCuK2w}{2uC1} ! t,$$
$$\frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)} ! e \right\}, \left\{ t=t, u= \right.$$
$$\frac{1}{2}, e ! \frac{2ioK4qwCiCoK2qCrK2w}{2rC1}, o ! \frac{1}{2}, q ! \frac{1}{2}, r ! \frac{1}{2}, w !$$
$$\frac{1}{2}, \frac{k2qwCoKqKw}{2oC1} ! i \right\}, \left\{ t=t, u=\frac{1}{2}, \frac{1}{2} ! r, o ! \frac{1}{2}, q ! \frac{1}{2}, w ! \right.$$
$$\frac{1}{2}, \frac{k2qwCoKqKw}{2oC1} ! i, \frac{2ioK4qwCiCoK2qCrK2w}{2rC1} ! e \right\}, \left\{ \frac{1}{2} \right.$$
$$! u, e ! \frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)}, o !$$

$$\begin{aligned}
& \mathfrak{k} \frac{1}{2}, q ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1}, w ! \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{k 2 q w C o K q K w}{2 o C 1} ! i\},\left\{\mathfrak{k} \frac{1}{2} ! r, \mathfrak{k} \frac{1}{2} ! u, o ! \mathfrak{k} \frac{1}{2}, q ! \mathfrak{k} \frac{1}{2}, t ! \right. \\
& \mathfrak{k} \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{k 2 q w C o K q K w}{2 o C 1} ! i, \\
& \mathfrak{k} \frac{4 i o K 8 q w C 4 t u C 2 i C 2 o K 4 q C 2 r C 2 t C 2 u K 4 w C 1}{2(2 r C 1)} ! e\},\left\{t= \right. \\
& \mathfrak{k} \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1}, \mathfrak{k} \frac{1}{2} ! u, e ! \mathfrak{k} \frac{1}{2}, o ! \mathfrak{k} \frac{1}{2}, q ! \mathfrak{k} \frac{1}{2}, r ! \\
& \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{k 2 q w C o K q K w}{2 o C 1} ! i\},\left\{t= \right. \\
& \mathfrak{k} \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1}, \mathfrak{k} \frac{1}{2} ! e, \mathfrak{k} \frac{1}{2} ! r, \mathfrak{k} \frac{1}{2} ! u, o ! \mathfrak{k} \frac{1}{2}, q ! \\
& \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{k 2 q w C o K q K w}{2 o C 1} ! i\},\left\{\mathfrak{k} \frac{1}{2} ! u, e ! \right. \\
& \mathfrak{k} \frac{4 i o K 8 q w C 4 t u C 2 i C 2 o K 4 q C 2 r C 2 t C 2 u K 4 w C 1}{2(2 r C 1)}, o ! \mathfrak{k} \frac{1}{2}, q ! \\
& \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{k 2 q w C o K q K w}{2 o C 1} ! i, \\
& \mathfrak{k} \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1} ! t\},\left\{e=e, r=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! u, o ! \mathfrak{k} \frac{1}{2}, q ! \right. \\
& \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{k 2 q w C o K q K w}{2 o C 1} ! i, \mathfrak{k} \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1} \\
& ! t\},\left\{\mathfrak{k} \frac{1}{2} ! r, \mathfrak{k} \frac{1}{2} ! u, o ! \mathfrak{k} \frac{1}{2}, q ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{k 2 q w C o K q K w}{2 o C 1} ! i, \right. \\
& \mathfrak{k} \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1} ! t, \\
& \mathfrak{k} \frac{4 i o K 8 q w C 4 t u C 2 i C 2 o K 4 q C 2 r C 2 t C 2 u K 4 w C 1}{2(2 r C 1)} ! e\},\left\{i=i, o= \right. \\
& \mathfrak{k} \frac{1}{2}, e ! \frac{4 q w K 2 t u C 2 q K r K t K u C 2 w}{2 r C 1}, q ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, t \\
& ! \frac{8 q w C 4 q K 2 u C 4 w C 1}{2(2 u C 1)}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}\},\left\{e=e, i=i, o=\mathfrak{k} \frac{1}{2}, r=\mathfrak{k} \frac{1}{2}, q \right. \\
& ! \mathfrak{k} \frac{1}{2}, t ! \frac{8 q w C 4 q K 2 u C 4 w C 1}{2(2 u C 1)}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}\},\left\{i=i, o=\mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} \right. \\
& ! r, q ! \mathfrak{k} \frac{1}{2}, t ! \frac{8 q w C 4 q K 2 u C 4 w C 1}{2(2 u C 1)}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \\
& \frac{4 q w K 2 t u C 2 q K r K t K u C 2 w}{2 r C 1} ! e\},\left\{i=i, o=\mathfrak{k} \frac{1}{2}, t \right. \\
& = \frac{8 q w C 4 q K 2 u C 4 w C 1}{2(2 u C 1)}, e ! \mathfrak{k} \frac{1}{2}, q ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}\},\left\{i \right. \\
& =i, o=\mathfrak{k} \frac{1}{2}, t=\frac{8 q w C 4 q K 2 u C 4 w C 1}{2(2 u C 1)}, \mathfrak{k} \frac{1}{2} ! e, \mathfrak{k} \frac{1}{2} ! r, q ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w
\end{aligned}$$

$$\begin{aligned}
& \{ \frac{1}{2} \}, \left\{ i=i, o=\frac{1}{2}, e=\frac{4qwK2tuC2qKrKtKuC2w}{2rC1}, q=\frac{1}{2}, r=\frac{1}{2}, u=\frac{1}{2}, w=\frac{1}{2}, \right. \\
& \left. \frac{8qwC4qK2uC4wC1}{2(2uC1)} \neq t \right\}, \left\{ i=i, o=\frac{1}{2}, \frac{1}{2} \neq r, q \neq \frac{1}{2}, u \neq \frac{1}{2}, w \neq \frac{1}{2}, \right. \\
& \left. \frac{4qwK2tuC2qKrKtKuC2w}{2rC1} \neq e, \frac{8qwC4qK2uC4wC1}{2(2uC1)} \neq t \right\}, \left\{ i=i, o=\frac{1}{2}, t=t, u=\frac{1}{2}, e \neq \frac{8qwC4qK2rC4wC1}{2(2rC1)}, \right. \\
& q=\frac{1}{2}, r=\frac{1}{2}, w=\frac{1}{2} \}, \left\{ i=i, o=\frac{1}{2}, t=t, u=\frac{1}{2}, \frac{1}{2} \neq r, q \neq \frac{1}{2}, w \neq \frac{1}{2}, \right. \\
& \left. \frac{8qwC4qK2rC4wC1}{2(2rC1)} \neq e \right\}, \left\{ i=i, o=\frac{1}{2}, \frac{1}{2} \neq u, e \neq \frac{4qwK2tuC2qKrKtKuC2w}{2rC1}, \right. \\
& q=\frac{1}{2}, r=\frac{1}{2}, t \neq \frac{8qwC4qK2uC4wC1}{2(2uC1)}, w \neq \frac{1}{2} \}, \left\{ i=i, o=\frac{1}{2}, \frac{1}{2} \neq r, \frac{1}{2} \neq u, q \neq \frac{1}{2}, t \neq \frac{8qwC4qK2uC4wC1}{2(2uC1)}, \right. \\
& w \neq \frac{1}{2}, \frac{4qwK2tuC2qKrKtKuC2w}{2rC1} \neq e \}, \left\{ i=i, o=\frac{1}{2}, t=\frac{8qwC4qK2uC4wC1}{2(2uC1)}, \frac{1}{2} \neq u, e \neq \frac{1}{2}, q \neq \frac{1}{2}, r \neq \frac{1}{2}, w \neq \frac{1}{2} \right\}, \\
& \left\{ i=i, o=\frac{1}{2}, t=\frac{8qwC4qK2uC4wC1}{2(2uC1)}, \frac{1}{2} \neq e, \frac{1}{2} \neq r, \frac{1}{2} \neq u, q \neq \frac{1}{2}, w \neq \frac{1}{2} \right\}, \left\{ i=i, o=\frac{1}{2}, \frac{1}{2} \neq u, e \neq \frac{4qwK2tuC2qKrKtKuC2w}{2rC1}, \right. \\
& q=\frac{1}{2}, r=\frac{1}{2}, w \neq \frac{1}{2}, \frac{8qwC4qK2uC4wC1}{2(2uC1)} \neq t \}, \left\{ e=e, i=i, o=\frac{1}{2}, r=\frac{1}{2}, \frac{1}{2} \neq u, q \neq \frac{1}{2}, w \neq \frac{1}{2}, \right. \\
& \left. \frac{8qwC4qK2uC4wC1}{2(2uC1)} \neq t \right\}, \left\{ i=i, o=\frac{1}{2}, \frac{1}{2} \neq r, \frac{1}{2} \neq u, q \neq \frac{1}{2}, w \neq \frac{1}{2}, \right. \\
& \left. \frac{4qwK2tuC2qKrKtKuC2w}{2rC1} \neq e, \frac{8qwC4qK2uC4wC1}{2(2uC1)} \neq t \right\}, \left\{ \frac{1}{2} \neq o, e \neq \frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)}, i \neq \frac{t2qwCoKqKw}{2oC1}, \right. \\
& q \neq \frac{1}{2}, r \neq \frac{1}{2}, t \neq \frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, u \neq \frac{1}{2}, w \neq \frac{1}{2} \}, \left\{ e=e, r=\frac{1}{2}, \frac{1}{2} \neq o, i \neq \frac{t2qwCoKqKw}{2oC1}, \right. \\
& q \neq \frac{1}{2}, t \neq \frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, u \neq \frac{1}{2}, w \neq \frac{1}{2} \}, \left\{ \frac{1}{2} \neq o, \frac{1}{2} \neq r, i \neq \frac{1}{2} \right\}
\end{aligned}$$

$$\begin{aligned}
& \vdash \frac{\vdash 2q w C o K q K w}{2 o C 1}, q ! \vdash \frac{1}{2}, t ! \vdash \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1}, u ! \\
& \vdash \frac{1}{2}, w ! \vdash \frac{1}{2}, \vdash \frac{4 i o K 8 q w C 4 t u C 2 i C 2 o K 4 q C 2 r C 2 t C 2 u K 4 w C 1}{2 (2 r C 1)} \\
& ! e \}, \left\{ t = \vdash \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1}, \vdash \frac{1}{2} ! o, e ! \vdash \frac{1}{2}, i ! \right. \\
& \vdash \frac{\vdash 2q w C o K q K w}{2 o C 1}, q ! \vdash \frac{1}{2}, r ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2} \}, \left\{ t = \right. \\
& \vdash \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1}, \vdash \frac{1}{2} ! e, \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! r, i ! \\
& \vdash \frac{\vdash 2q w C o K q K w}{2 o C 1}, q ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2} \}, \left\{ \vdash \frac{1}{2} ! o, e ! \right. \\
& \vdash \frac{4 i o K 8 q w C 4 t u C 2 i C 2 o K 4 q C 2 r C 2 t C 2 u K 4 w C 1}{2 (2 r C 1)}, i ! \\
& \vdash \frac{\vdash 2q w C o K q K w}{2 o C 1}, q ! \vdash \frac{1}{2}, r ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2}, \\
& \vdash \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1} ! t \}, \left\{ \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! r, i ! \right. \\
& \vdash \frac{\vdash 2q w C o K q K w}{2 o C 1}, q ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2}, \\
& \vdash \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1} ! t, \\
& \vdash \frac{4 i o K 8 q w C 4 t u C 2 i C 2 o K 4 q C 2 r C 2 t C 2 u K 4 w C 1}{2 (2 r C 1)} ! e \}, \left\{ t = t, u = \right. \\
& \vdash \frac{1}{2}, \vdash \frac{1}{2} ! o, e ! \vdash \frac{2 i o K 4 q w C i C o K 2 q C r K 2 w}{2 r C 1}, i ! \\
& \vdash \frac{\vdash 2q w C o K q K w}{2 o C 1}, q ! \vdash \frac{1}{2}, r ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2} \}, \left\{ t = t, u = \vdash \frac{1}{2}, \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} \right. \\
& ! r, i ! \vdash \frac{\vdash 2q w C o K q K w}{2 o C 1}, q ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2}, \\
& \vdash \frac{2 i o K 4 q w C i C o K 2 q C r K 2 w}{2 r C 1} ! e \}, \left\{ \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! u, e ! \right. \\
& \vdash \frac{4 i o K 8 q w C 4 t u C 2 i C 2 o K 4 q C 2 r C 2 t C 2 u K 4 w C 1}{2 (2 r C 1)}, i ! \\
& \vdash \frac{\vdash 2q w C o K q K w}{2 o C 1}, q ! \vdash \frac{1}{2}, r ! \vdash \frac{1}{2}, t ! \\
& \vdash \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1}, w ! \vdash \frac{1}{2} \}, \left\{ \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! r, \vdash \frac{1}{2} ! u, i ! \right. \\
& \vdash \frac{\vdash 2q w C o K q K w}{2 o C 1}, q ! \vdash \frac{1}{2}, t ! \vdash \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1}, w ! \\
& \vdash \frac{1}{2}, \vdash \frac{4 i o K 8 q w C 4 t u C 2 i C 2 o K 4 q C 2 r C 2 t C 2 u K 4 w C 1}{2 (2 r C 1)} ! e \}, \left\{ t = \right. \\
& \vdash \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1}, \vdash \frac{1}{2} ! o, \vdash \frac{1}{2} ! u, e ! \vdash \frac{1}{2}, i !
\end{aligned}$$

$$\begin{aligned}
& \mathfrak{k} \frac{\mathfrak{k}^2 q w C o K q K w}{2 o C 1}, q ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \{ t = \\
& \mathfrak{k} \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1}, \mathfrak{k} \frac{1}{2} ! e, \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! r, \mathfrak{k} \frac{1}{2} ! u, i ! \\
& \mathfrak{k} \frac{\mathfrak{k}^2 q w C o K q K w}{2 o C 1}, q ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \{ \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! u, e ! \\
& \mathfrak{k} \frac{4 i o K 8 q w C 4 t u C 2 i C 2 o K 4 q C 2 r C 2 t C 2 u K 4 w C 1}{2 (2 r C 1)}, i ! \\
& \mathfrak{k} \frac{\mathfrak{k}^2 q w C o K q K w}{2 o C 1}, q ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1} ! t \}, \{ e = e, r = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! u, i ! \\
& \mathfrak{k} \frac{\mathfrak{k}^2 q w C o K q K w}{2 o C 1}, q ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1} \\
& ! t \}, \{ \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! r, \mathfrak{k} \frac{1}{2} ! u, i ! \mathfrak{k} \frac{\mathfrak{k}^2 q w C o K q K w}{2 o C 1}, q ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{2 i o K 4 q w C i C o K 2 q C u K 2 w}{2 u C 1} ! t, \\
& \mathfrak{k} \frac{4 i o K 8 q w C 4 t u C 2 i C 2 o K 4 q C 2 r C 2 t C 2 u K 4 w C 1}{2 (2 r C 1)} ! e \}, \{ q = \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{1}{2} ! i, e ! \mathfrak{k} \frac{4 i o C 4 t u C 2 i C 2 o C 2 r C 2 t C 2 u C 3}{2 (2 r C 1)}, o ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, t ! \\
& \mathfrak{k} \frac{2 i o C i C o C u C 1}{2 u C 1}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \{ e = e, q = \mathfrak{k} \frac{1}{2}, r = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, o ! \\
& \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{2 i o C i C o C u C 1}{2 u C 1}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} ! r, o \\
& ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{2 i o C i C o C u C 1}{2 u C 1}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{4 i o C 4 t u C 2 i C 2 o C 2 r C 2 t C 2 u C 3}{2 (2 r C 1)} ! e \}, \{ q = \mathfrak{k} \frac{1}{2}, t = \\
& \mathfrak{k} \frac{2 i o C i C o C u C 1}{2 u C 1}, \mathfrak{k} \frac{1}{2} ! i, e ! \mathfrak{k} \frac{1}{2}, o ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \{ q \\
& = \mathfrak{k} \frac{1}{2}, t = \mathfrak{k} \frac{2 i o C i C o C u C 1}{2 u C 1}, \mathfrak{k} \frac{1}{2} ! e, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} ! r, o ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w \\
& ! \mathfrak{k} \frac{1}{2} \}, \{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, e ! \mathfrak{k} \frac{4 i o C 4 t u C 2 i C 2 o C 2 r C 2 t C 2 u C 3}{2 (2 r C 1)}, o ! \\
& \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2 i o C i C o C u C 1}{2 u C 1} ! t \}, \{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, \\
& \mathfrak{k} \frac{1}{2} ! r, o ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2 i o C i C o C u C 1}{2 u C 1} ! t, \\
& \mathfrak{k} \frac{4 i o C 4 t u C 2 i C 2 o C 2 r C 2 t C 2 u C 3}{2 (2 r C 1)} ! e \}, \{ q = \mathfrak{k} \frac{1}{2}, t = t, u = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, e \\
& ! \mathfrak{k} \frac{2 i o C i C o C r C 1}{2 r C 1}, o ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \{ q = \mathfrak{k} \frac{1}{2}, t = t, u = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2}
\end{aligned}$$

$$\begin{aligned}
& ! i, \mathfrak{k} \frac{1}{2} ! r, o ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2ioCiCoCrC1}{2rC1} ! e \}, \left\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, \right. \\
& \mathfrak{k} \frac{1}{2} ! u, e ! \mathfrak{k} \frac{4ioC4tuC2iC2oC2rC2tC2uC3}{2(2rC1)}, o ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, t ! \\
& \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} ! r, \mathfrak{k} \frac{1}{2} ! u, o ! \mathfrak{k} \frac{1}{2}, t \right. \\
& ! \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{4ioC4tuC2iC2oC2rC2tC2uC3}{2(2rC1)} \\
& ! e \}, \left\{ q = \mathfrak{k} \frac{1}{2}, t = \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1}, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} ! u, e ! \mathfrak{k} \frac{1}{2}, o ! \mathfrak{k} \frac{1}{2}, r \right. \\
& ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ q = \mathfrak{k} \frac{1}{2}, t = \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1}, \mathfrak{k} \frac{1}{2} ! e, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} ! r, \right. \\
& \mathfrak{k} \frac{1}{2} ! u, o ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} ! u, e ! \right. \\
& \mathfrak{k} \frac{4ioC4tuC2iC2oC2rC2tC2uC3}{2(2rC1)}, o ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1} ! t \}, \left\{ e = e, q = \mathfrak{k} \frac{1}{2}, r = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} ! u, o ! \mathfrak{k} \frac{1}{2}, w \right. \\
& ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1} ! t \}, \left\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! i, \mathfrak{k} \frac{1}{2} ! r, \mathfrak{k} \frac{1}{2} ! u, o ! \right. \\
& \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1} ! t, \\
& \mathfrak{k} \frac{4ioC4tuC2iC2oC2rC2tC2uC3}{2(2rC1)} ! e \}, \left\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! o, e ! \right. \\
& \mathfrak{k} \frac{4ioC4tuC2iC2oC2rC2tC2uC3}{2(2rC1)}, i ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, t ! \\
& \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ e = e, q = \mathfrak{k} \frac{1}{2}, r = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! o, i ! \right. \\
& \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! r, i \right. \\
& ! \mathfrak{k} \frac{1}{2}, t ! \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \\
& \mathfrak{k} \frac{4ioC4tuC2iC2oC2rC2tC2uC3}{2(2rC1)} ! e \}, \left\{ q = \mathfrak{k} \frac{1}{2}, t = \right. \\
& \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1}, \mathfrak{k} \frac{1}{2} ! o, e ! \mathfrak{k} \frac{1}{2}, i ! \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2} \}, \left\{ q \right. \\
& = \mathfrak{k} \frac{1}{2}, t = \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1}, \mathfrak{k} \frac{1}{2} ! e, \mathfrak{k} \frac{1}{2} ! o, \mathfrak{k} \frac{1}{2} ! r, i ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w \\
& ! \mathfrak{k} \frac{1}{2} \}, \left\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! o, e ! \mathfrak{k} \frac{4ioC4tuC2iC2oC2rC2tC2uC3}{2(2rC1)}, i ! \right. \\
& \mathfrak{k} \frac{1}{2}, r ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1} ! t \}, \left\{ q = \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{1}{2} ! o, \right. \\
& \mathfrak{k} \frac{1}{2} ! r, i ! \mathfrak{k} \frac{1}{2}, u ! \mathfrak{k} \frac{1}{2}, w ! \mathfrak{k} \frac{1}{2}, \mathfrak{k} \frac{2ioCiCoCuC1}{2uC1} ! t,
\end{aligned}$$

$$\begin{aligned}
& \left\{ q = \frac{1}{2}, t = t, u = \frac{1}{2}, \frac{1}{2} \neq o, \right. \\
& e \neq \frac{2ioCiCoCrC1}{2rC1}, i \neq \frac{1}{2}, r \neq \frac{1}{2}, w \neq \frac{1}{2} \left. \right\}, \left\{ q = \frac{1}{2}, t = t, u = \frac{1}{2}, \frac{1}{2} \neq o, \right. \\
& \frac{1}{2} \neq r, i \neq \frac{1}{2}, w \neq \frac{1}{2}, \frac{2ioCiCoCrC1}{2rC1} \neq e \left. \right\}, \left\{ q = \frac{1}{2}, \frac{1}{2} \neq o, \right. \\
& \frac{1}{2} \neq u, e \neq \frac{4ioC4tuC2iC2oC2rC2tC2uC3}{2(2rC1)}, i \neq \frac{1}{2}, r \neq \frac{1}{2}, t \neq \\
& \frac{2ioCiCoCuC1}{2uC1}, w \neq \frac{1}{2} \left. \right\}, \left\{ q = \frac{1}{2}, \frac{1}{2} \neq o, \frac{1}{2} \neq r, \frac{1}{2} \neq u, i \neq \frac{1}{2}, t \right. \\
& \neq \frac{2ioCiCoCuC1}{2uC1}, w \neq \frac{1}{2}, \frac{4ioC4tuC2iC2oC2rC2tC2uC3}{2(2rC1)} \\
& \neq e \left. \right\}, \left\{ q = \frac{1}{2}, t = \frac{2ioCiCoCuC1}{2uC1}, \frac{1}{2} \neq o, \frac{1}{2} \neq u, e \neq \frac{1}{2}, i \neq \frac{1}{2}, r \right. \\
& \neq \frac{1}{2}, w \neq \frac{1}{2} \left. \right\}, \left\{ q = \frac{1}{2}, t = \frac{2ioCiCoCuC1}{2uC1}, \frac{1}{2} \neq e, \frac{1}{2} \neq o, \frac{1}{2} \right. \\
& \neq r, \frac{1}{2} \neq u, i \neq \frac{1}{2}, w \neq \frac{1}{2} \left. \right\}, \left\{ q = \frac{1}{2}, \frac{1}{2} \neq o, \frac{1}{2} \neq u, e \neq \right. \\
& \frac{4ioC4tuC2iC2oC2rC2tC2uC3}{2(2rC1)}, i \neq \frac{1}{2}, r \neq \frac{1}{2}, w \neq \frac{1}{2}, \\
& \frac{2ioCiCoCuC1}{2uC1} \neq t \left. \right\}, \left\{ e = e, q = \frac{1}{2}, r = \frac{1}{2}, \frac{1}{2} \neq o, \frac{1}{2} \neq u, i \neq \frac{1}{2}, w \right. \\
& \neq \frac{1}{2}, \frac{2ioCiCoCuC1}{2uC1} \neq t \left. \right\}, \left\{ q = \frac{1}{2}, \frac{1}{2} \neq o, \frac{1}{2} \neq r, \frac{1}{2} \neq u, i \neq \right. \\
& \frac{1}{2}, w \neq \frac{1}{2}, \frac{2ioCiCoCuC1}{2uC1} \neq t, \\
& \frac{4ioC4tuC2iC2oC2rC2tC2uC3}{2(2rC1)} \neq e \left. \right\}, \left\{ \frac{1}{2} \neq q, e \neq \right. \\
& \frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)}, i \neq \\
& \frac{K8qwC2oK4qK4wK1}{2(2oC1)}, o \neq \frac{1}{2}, r \neq \frac{1}{2}, t \neq \\
& \frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, u \neq \frac{1}{2}, w \neq \frac{1}{2}, \frac{K2qwCoKqKw}{2oC1} \\
& \neq i \left. \right\}, \left\{ e = e, r = \frac{1}{2}, \frac{1}{2} \neq q, i \neq \frac{K8qwC2oK4qK4wK1}{2(2oC1)}, o \neq \frac{1}{2}, t \neq \right. \\
& \frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, u \neq \frac{1}{2}, w \neq \frac{1}{2}, \frac{K2qwCoKqKw}{2oC1} \\
& \neq i \left. \right\}, \left\{ \frac{1}{2} \neq q, \frac{1}{2} \neq r, i \neq \frac{K8qwC2oK4qK4wK1}{2(2oC1)}, o \neq \frac{1}{2}, t \neq \right. \\
& \frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, u \neq \frac{1}{2}, w \neq \frac{1}{2}, \frac{K2qwCoKqKw}{2oC1} \\
& \neq i, \frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)} \neq e \left. \right\}, \left\{ t = \right.
\end{aligned}$$

$$\begin{aligned}
& \vdash \frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, \vdash \frac{1}{2} ! q, e ! \vdash \frac{1}{2}, i ! \\
& \vdash \frac{\vdash 8qwC2oK4qK4wK1}{2(2oC1)}, o ! \vdash \frac{1}{2}, r ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2}, \\
& \vdash \frac{\vdash 2qwCoKqKw}{2oC1} ! i \}, \left\{ t = \vdash \frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, \vdash \frac{1}{2} ! e, \right. \\
& \vdash \frac{1}{2} ! q, \vdash \frac{1}{2} ! r, i ! \vdash \frac{\vdash 8qwC2oK4qK4wK1}{2(2oC1)}, o ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2}, \\
& \left. \vdash \frac{\vdash 2qwCoKqKw}{2oC1} ! i \}, \left\{ \vdash \frac{1}{2} ! q, e ! \right. \right. \\
& \vdash \frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)}, i ! \\
& \vdash \frac{\vdash 8qwC2oK4qK4wK1}{2(2oC1)}, o ! \vdash \frac{1}{2}, r ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2}, \\
& \vdash \frac{\vdash 2qwCoKqKw}{2oC1} ! i, \vdash \frac{2ioK4qwCiCoK2qCuK2w}{2uC1} ! t \}, \left\{ \vdash \frac{1}{2} ! q, \right. \\
& \vdash \frac{1}{2} ! r, i ! \vdash \frac{\vdash 8qwC2oK4qK4wK1}{2(2oC1)}, o ! \vdash \frac{1}{2}, u ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2}, \\
& \left. \vdash \frac{\vdash 2qwCoKqKw}{2oC1} ! i, \vdash \frac{2ioK4qwCiCoK2qCuK2w}{2uC1} ! t, \right. \\
& \left. \vdash \frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)} ! e \right\}, \left\{ t = t, u = \right. \\
& \vdash \frac{1}{2}, \vdash \frac{1}{2} ! q, e ! \vdash \frac{2ioK4qwCiCoK2qCrK2w}{2rC1}, i ! \\
& \vdash \frac{\vdash 8qwC2oK4qK4wK1}{2(2oC1)}, o ! \vdash \frac{1}{2}, r ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2}, \vdash \frac{\vdash 2qwCoKqKw}{2oC1} \\
& ! i \}, \left\{ e = e, r = \vdash \frac{1}{2}, t = t, u = \vdash \frac{1}{2}, \vdash \frac{1}{2} ! q, i ! \vdash \frac{\vdash 8qwC2oK4qK4wK1}{2(2oC1)}, o ! \right. \\
& \left. \vdash \frac{1}{2}, w ! \vdash \frac{1}{2}, \vdash \frac{\vdash 2qwCoKqKw}{2oC1} ! i \right\}, \left\{ t = t, u = \vdash \frac{1}{2}, \vdash \frac{1}{2} ! q, \vdash \frac{1}{2} ! r, i ! \right. \\
& \vdash \frac{\vdash 8qwC2oK4qK4wK1}{2(2oC1)}, o ! \vdash \frac{1}{2}, w ! \vdash \frac{1}{2}, \vdash \frac{\vdash 2qwCoKqKw}{2oC1} ! i, \\
& \left. \vdash \frac{2ioK4qwCiCoK2qCrK2w}{2rC1} ! e \right\}, \left\{ \vdash \frac{1}{2} ! q, \vdash \frac{1}{2} ! u, e ! \right. \\
& \vdash \frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)}, i ! \\
& \vdash \frac{\vdash 8qwC2oK4qK4wK1}{2(2oC1)}, o ! \vdash \frac{1}{2}, r ! \vdash \frac{1}{2}, t ! \\
& \vdash \frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, w ! \vdash \frac{1}{2}, \vdash \frac{\vdash 2qwCoKqKw}{2oC1} ! i \}, \left\{ \vdash \frac{1}{2} \right. \\
& ! q, \vdash \frac{1}{2} ! r, \vdash \frac{1}{2} ! u, i ! \vdash \frac{\vdash 8qwC2oK4qK4wK1}{2(2oC1)}, o ! \vdash \frac{1}{2}, t ! \\
& \left. \vdash \frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, w ! \vdash \frac{1}{2}, \vdash \frac{\vdash 2qwCoKqKw}{2oC1} ! i, \right.
\end{aligned}$$

$$\begin{aligned}
& \left\{ t = \frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)} \mid e \right\}, \left\{ t = \right. \\
& \left. \frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, \frac{1}{2} \mid q, \frac{1}{2} \mid u, e \mid \frac{1}{2}, i \mid \right. \\
& \left. \frac{48qwC2oK4qK4wK1}{2(2oC1)}, o \mid \frac{1}{2}, r \mid \frac{1}{2}, w \mid \frac{1}{2}, \frac{42qwCoKqKw}{2oC1} \right. \\
& \left. \mid i \right\}, \left\{ t = \frac{2ioK4qwCiCoK2qCuK2w}{2uC1}, \frac{1}{2} \mid e, \frac{1}{2} \mid q, \frac{1}{2} \mid r, \frac{1}{2} \right. \\
& \left. \mid u, i \mid \frac{48qwC2oK4qK4wK1}{2(2oC1)}, o \mid \frac{1}{2}, w \mid \frac{1}{2}, \frac{42qwCoKqKw}{2oC1} \right. \\
& \left. \mid i \right\}, \left\{ \frac{1}{2} \mid q, \frac{1}{2} \mid u, e \mid \right. \\
& \left. \frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)}, i \mid \right. \\
& \left. \frac{48qwC2oK4qK4wK1}{2(2oC1)}, o \mid \frac{1}{2}, r \mid \frac{1}{2}, w \mid \frac{1}{2}, \frac{42qwCoKqKw}{2oC1} \right. \\
& \left. \mid i, \frac{2ioK4qwCiCoK2qCuK2w}{2uC1} \mid t \right\}, \left\{ e = e, r = \frac{1}{2}, \frac{1}{2} \mid q, \frac{1}{2} \mid u, i \right. \\
& \left. \mid \frac{48qwC2oK4qK4wK1}{2(2oC1)}, o \mid \frac{1}{2}, w \mid \frac{1}{2}, \frac{42qwCoKqKw}{2oC1} \mid i, \right. \\
& \left. \frac{2ioK4qwCiCoK2qCuK2w}{2uC1} \mid t \right\}, \left\{ \frac{1}{2} \mid q, \frac{1}{2} \mid r, \frac{1}{2} \mid u, i \mid \right. \\
& \left. \frac{48qwC2oK4qK4wK1}{2(2oC1)}, o \mid \frac{1}{2}, w \mid \frac{1}{2}, \frac{42qwCoKqKw}{2oC1} \mid i, \right. \\
& \left. \frac{2ioK4qwCiCoK2qCuK2w}{2uC1} \mid t \right\}, \\
& \left\{ i = \frac{4ioK8qwC4tuC2iC2oK4qC2rC2tC2uK4wC1}{2(2rC1)} \mid e \right\}, \left\{ i = \right. \\
& \left. \frac{48qwC2oK4qK4wK1}{2(2oC1)}, \frac{1}{2} \mid q, e \mid \frac{2tuCrCtCuC1}{2rC1}, o \mid \frac{1}{2}, r \mid \right. \\
& \left. \frac{1}{2}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, w \mid \frac{1}{2} \right\}, \left\{ e = e, i = \frac{48qwC2oK4qK4wK1}{2(2oC1)}, r = \right. \\
& \left. \frac{1}{2}, \frac{1}{2} \mid q, o \mid \frac{1}{2}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, w \mid \frac{1}{2} \right\}, \left\{ i = \right. \\
& \left. \frac{48qwC2oK4qK4wK1}{2(2oC1)}, \frac{1}{2} \mid q, \frac{1}{2} \mid r, o \mid \frac{1}{2}, t \mid \frac{1}{2}, u \mid \frac{1}{2}, w \mid \right. \\
& \left. \frac{1}{2}, \frac{2tuCrCtCuC1}{2rC1} \mid e \right\}
\end{aligned}$$

