														- 0						
	1a	4a	2a	4b	2b	2c	4c	2d	4d	4e	2e	4f	4g	2f	4h	4i	2g	4j	4k	4l
χ_1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1	-1	-1	-1	1	1	1	1	-1	1	-1	-1	-1	1	-1	1	1	1	-1	-1
χ_3	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	1	1
χ_4	1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
χ_5	1	-1	1	1	1	1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	1	1	-1
χ_6	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	1	-1	-1	1	-1	1
χ_7	1	1	-1	1	1	1	-1	1	1	-1	-1	1	1	1	-1	-1	1	-1	1	-1
χ_8	1	1	1	-1	1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	-1	-1	-1
χ_9	1	-E(4)	-1	-E(4)	1	-1	E(4)	-1	E(4)	E(4)	1	-E(4)	E(4)	-1	1	-E(4)	1	-E(4)	E(4)	-1
χ_{10}	1	E(4)	-1	E(4)	1	-1	-E(4)	-1	-E(4)	-E(4)	1	E(4)	-E(4)	-1	1	E(4)	1	E(4)	-E(4)	-1
χ_{11}	1	-E(4)	-1	E(4)	1	-1	E(4)	1	E(4)	-E(4)	1	E(4)	-E(4)	-1	-1	-E(4)	-1	E(4)	-E(4)	1
χ_{12}	1	E(4)	-1	-E(4)	1	-1	-E(4)	1	-E(4)	E(4)	1	-E(4)	E(4)	-1	-1	E(4)	-1	-E(4)	E(4)	1
χ_{13}	1	-E(4)	1	-E(4)	1	-1	-E(4)	-1	E(4)	-E(4)	-1	-E(4)	E(4)	-1	-1	E(4)	1	E(4)	E(4)	1
χ_{14}	1	E(4)	1	E(4)	1	-1	E(4)	-1	-E(4)	E(4)	-1	E(4)	-E(4)	-1	-1	-E(4)	1	-E(4)	-E(4)	1
χ_{15}	1	-E(4)	1	E(4)	1	-1	-E(4)	1	E(4)	E(4)	-1	E(4)	-E(4)	-1	1	E(4)	-1	-E(4)	-E(4)	-1
χ_{16}	1	E(4)	1	-E(4)	1	-1	E(4)	1	-E(4)	-E(4)	-1	-E(4)	E(4)	-1	1	-E(4)	-1	E(4)	E(4)	-1
χ_{17}	2	O	0	$-\dot{2}$	-2	2	O	0	0	0	0	2	-2	-2	0	0	0	Ò	$\hat{2}$	0
χ_{18}	2	0	0	2	-2	2	0	0	0	0	0	-2	2	-2	0	0	0	0	-2	0
χ_{19}	2	0	0	-2 * E(4)	-2	-2	0	0	0	0	0	2 * E(4)	2 * E(4)	2	0	0	0	0	-2 * E(4)	0
χ_{20}	2	0	0	2 * E(4)	-2	-2	0	0	0	0	0	-2 * E(4)	-2 * E(4)	2	0	0	0	0	2 * E(4)	0

Ordinary character table of $G \cong C4 \times D8$:

Trivial source character table of $G \cong C4 \times D8$ at $p = 2$:									
Normalisers N_i	$N_1 \mid N_2 \mid N_3 \mid N_4 \mid N_5 \mid N_6 \mid N_7 \mid N_8$	$N_9 \mid N_{10} \mid N_{11} \mid N_{12} \mid$	$N_{13} \mid N_{14} \mid N_{15} \mid N_{16} \mid N_{17} \mid$	$N_{18} \mid N_{19} \mid N_{20} \mid N_{21} \mid N_{22}$	$ N_{23} N_{24} N_{25} N_{26} N_{27}$	$oxed{N_{28} N_{29} N_{30} N_{31} N_{32}}$	$N_{33} \mid N_{34} \mid N_{35} \mid N_{36} \mid N_{37} \mid N_{36}$	$_{38} \mid N_{39} \mid N_{40} \mid N_{41} \mid N_$	$N_{42} \mid N_{43} \mid N_{44} \mid N_{45} \mid N_{46} \mid N_{47}$
p-subgroups of G up to conjugacy in G	$P_1 P_2 P_3 P_4 P_5 P_6 P_7 P_8$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	P_{13} P_{14} P_{15} P_{16} P_{17}	P_{18} P_{19} P_{20} P_{21} P_{22}	P_{23} P_{24} P_{25} P_{26} P_{27}	P_{28} P_{29} P_{30} P_{31} P_{32}	P_{33} P_{34} P_{35} P_{36} P_{37} P_{38}	$P_{38} P_{39} P_{40} P_{41}$	P_{42} P_{43} P_{44} P_{45} P_{46} P_{47}
Representatives $n_i \in N_i$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1a $1a$ $1a$ $1a$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	a $1a$ $1a$ $1a$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 2 \cdot \chi_{17} + 2 \cdot \chi_{18} + 2 \cdot \chi_{19} + 2 \cdot \chi_{20}$	32 0 0 0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 2 \cdot \chi_{17} + 2 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	16 16 0 0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	16 0 16 0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 2 \cdot \chi_{19} + 2 \cdot \chi_{20}$	16 0 0 16 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20}$	16 0 0 0 8 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20}$	16 0 0 0 0 8 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20}$	16 0 0 0 0 0 8 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20}$	16 0 0 0 0 0 0 8	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 8 8 8 0 0 0 0	8 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 0 8 0 0 0 0 0	0 8 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 2 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 8 0 0 0 0 0 0	0 0 8 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 2 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 8 0 0 0 0 0 0	0 0 0 8	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 0 8 0 0 0 0 0	0 0 0 0	8 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 8 0 0 4 4 0 0	0 0 0 0	0 4 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 0 8 0 8 0 0	0 0 0 0	0 0 8 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 0 8 0 0 8 0 0	0 0 0 0	0 0 0 8 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20}$	8 0 0 8 4 4 0 0	0 0 0 0	0 0 0 0 4	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20}$	8 0 0 8 0 0 0 0	0 0 0 0	0 0 0 0 0	4 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 8 0 0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 4 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20}$	8 0 0 8 0 0 4 4	0 0 0 0	0 0 0 0 0	0 0 4 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 8 0 0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 4 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 0 8 0 0 0 8	0 0 0 0	0 0 0 0 0	0 0 0 0 8	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 8 0 0 0 0 4 4	0 0 0 0	0 0 0 0 0	0 0 0 0 0	4 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$\boxed{1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}}$	8 0 8 0 0 0 8 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 8 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0
$\boxed{1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}}$	4 4 4 4 0 0 4 4	4 0 0 0	0 0 0 0 0	0 0 4 0 4	4 4 4 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0
$\boxed{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}}$	4 4 4 4 0 0 0 0	4 0 0 0	0 0 0 0 0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0 0 0 4 0		0 0 0 0 0	0 0 0	0 0 0 0 0 0
$\boxed{1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}}$	4 4 4 4 0 0 0 0	4 0 0 0	0 0 0 0 0	4 0 0 0 0			0 0 0 0 0	0 0 0	0 0 0 0 0 0
$\boxed{1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}}$	4 4 4 4 0 0 0 0	4 0 0 0	0 0 0 0 0	0 4 0 0 0		4 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0
$\boxed{1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 1 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 1 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}}$	4 4 4 4 0 0 0 0	4 4 0 0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0 0 0 0 0		0 4 0 0 0	0 0 0 0 0	0 0 0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
$\boxed{1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 1 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}}$	4 4 4 4 4 0 0	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$0 \mid 4 \mid 4 \mid 4 \mid 4 \mid$	0 0 0 0 0		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0 0 0 0 0	0 0 0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
$\boxed{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}}$	4 4 4 4 0 0 0 0	4 0 4 4	0 0 0 0 0	0 0 0 0 0		$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0 0 0 0 0	0 0 0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 4 0 0 0 0 2 2	0 0 4 0	0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0 0 0 0 2		0 0 0	0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 4 0 0 0 0 2 2	0 0 0 4	0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0 0 0 0			0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 4 0 0 2 2 0 0	0 0 4 0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					0 0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 4 0 0 2 2 0 0	0 0 0 4	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0 0 0 0 0			0 0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 0 4 0 4 0 4 0	0 0 0 0	4 0 4 0 0	0 0 0 0 0		0 0 0 0 0			0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 0 4 0 0 4 4 0	0 4 0 0	0 0 0 4 0	0 0 0 0 0					0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 0 4 0 4 0 0 4	0 4 0 0	0 0 4 0 0	0 0 0 0 4		0 0 0 0 0			0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 0 4 0 0 4 0 4	0 0 0 0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0 0 0 0 4	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0		0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	2 2 2 2 2 0 0	2 0 0 0	0 2 2 2 2	2 0 0 2 0		0 0 2 0 0	0 0 0 0 0	0 2 0	0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	2 2 2 2 0 0 2 2	2 0 2 2	0 0 0 0 0	0 0 2 2 2	2 2 2 2 0	0 0 0 2 2	2 0 0 0 0 0	0 0 2	0 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	2 2 2 2 0 0 0 0	2 2 0 0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0 2 0	2 2 0 0 0	0 0 0 0 0	0 0 0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	2 2 2 2 2 0 0	2 0 2 2	0 2 2 2 2	0 2 0 0 0	0 0 0 0 0	2 0 2 2 0	0 2 2 0 0 0	0 0 0	0 2 0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	2 2 2 2 2 2 2 2		2 2 2 2 2	0 0 2 0 2		0 2 2 0 0			0 0 2 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	2 2 2 2 0 0 0 0		2 0 0 0 0	2 0 0 0 0		0 2 0 2 0			0 0 0 2 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	2 2 2 2 0 0 2 2	2 0 0 0	0 0 0 0 0	2 2 2 0 2					0 0 0 0 2 0
$\boxed{1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}]}$	1 1 1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1			1 1 1 1 1 1	. 1 1 1	1 1 1 1 1 1

 $P_2 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong C2$ $P_3 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong C2$ $P_4 = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28)]) \cong C2$ $P_5 = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32)]) \cong C2$ $P_6 = Group([(1,13)(2,19)(3,6)(4,24)(5,25)(7,10)(8,28)(9,29)(11,15)(12,16)(14,31)(17,21)(18,22)(20,32)(23,26)(27,30)]) \cong C2$ $P_7 = Group([(1,8)(2,15)(3,27)(4,10)(5,20)(6,21)(7,31)(9,26)(11,29)(12,17)(13,32)(14,22)(16,30)(18,24)(19,23)(25,28)]) \cong C2$

 $P_8 = Group([(1,21)(2,4)(3,32)(5,30)(6,8)(7,23)(9,14)(10,15)(11,18)(12,28)(13,27)(16,20)(17,25)(19,31)(22,26)(24,29)]) \cong \mathbb{C}^2$ $P_{10} = Group([(1,32,5,28)(2,23,9,11)(3,21,12,30)(4,18,14,7)(6,27,16,17)(8,25,20,13)(10,31,22,24)(15,29,26,19),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong C4$ $P_{11} = Group([(1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong C4$ $P_{12} = Group([(1,14,6,26)(2,20,10,30)(3,23,13,31)(4,16,15,5)(7,27,19,32)(8,22,21,9)(11,25,24,12)(17,29,28,18),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong C4$ $P_{13} = Group([(1,27,5,17)(2,31,9,24)(3,8,12,20)(4,29,14,19)(6,32,16,28)(7,15,18,26)(10,23,22,11)(13,21,25,30),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong \mathbf{C4}$ $P_{18} = Group([(1,18,16,19)(2,25,22,3)(4,27,26,28)(5,7,6,29)(8,31,30,11)(9,13,10,12)(14,17,15,32)(20,24,21,23),(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28)]) \cong C4$ $P_{19} = Group([(1,11,6,24)(2,17,10,28)(3,4,13,15)(5,23,16,31)(7,8,19,21)(9,27,22,32)(12,14,25,26)(18,20,29,30),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong C4$

 $P_{21} = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong \mathbf{C4}$

 $P_{25} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,6)(2,10)(3,12)(4,12)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,6)(2,10)(3,12)(4,12)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24$ $P_{26} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,2,6)(17,27)(19,29)(21,30)(24,31)(24,32), \\ (1,2,6)(17,27)(19,29)(21,30)(24,32), \\ (1,2,6)(17,27)(19,29)(21,30)(21,32), \\ (1,2,6)(17,27)(19,29)(21,30)(21,32), \\ (1,2,6)(17,27)(19,29)(21,30)(21,32), \\ (1,2,6)(17,27)(19,29)(21,30)(21,32), \\ (1,2,6)(17,27)(19,29)(21,30)(21,32), \\ (1,2,6)(17,27)(19,29)(21,30)(21,32), \\ (1,2,6)(17,27)(19,29)(21,30)(21,32), \\ (1,2,6)(17,27)(19,29)(21,30)(21,32), \\ (1,2,6)(17,27)(19,29)(21,30)(21,32), \\ (1,2,6)(17,27)(19,29)(21,32)(21,32), \\ (1,2,6)(17,27)(19,29)(21,32)(21,32), \\ (1,2,6)(17,27)(19,29)(21,32)(21,32), \\ (1,2,2)(17,27)(19,29)(17,27)(19,29)(17,27)(19,29)(17,27)(19,29)(17,27)(19,29)(17,27)(19,29)(17,27)(19,29)(17,27)(19,29)(17,27)(19,29)(17,27)(19,29)(17,27)(19,29)(17,27)(19,29)(17,27)(19,29)(17,27)(19,29)(17,27)(19,29)($ $P_{27} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,12)(4,14)(6,16)(7,19)(8,21)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,12)(4,12)(2,12)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,12)(4,12)(2,12)(12,23)(12,$ $P_{30} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(2,10)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(24,32)(24,3$

 $P_{36} = Group([(1,8)(2,15)(3,27)(4,10)(5,20)(6,21)(7,31)(9,26)(11,29)(12,17)(13,32)(14,22)(16,30)(18,24)(19,23)(25,28), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)] \cong D8$ $P_{37} = Group([(1,8)(2,15)(3,27)(4,10)(5,20)(6,21)(7,31)(9,26)(11,29)(12,17)(13,32)(14,22)(16,30)(18,24)(19,23)(25,28),\\ (1,13)(2,19)(3,6)(4,24)(5,25)(7,10)(8,28)(9,29)(11,15)(12,16)(14,31)(17,21)(18,22)(20,32)(23,26)(27,30),\\ (1,13)(2,19)(3,6)(4,24)(5,25)(7,10)(8,28)(9,29)(11,15)(12,16)(14,31)(17,21)(18,22)(20,32)(23,26)(27,30),\\ (1,13)(2,19)(3,6)(4,24)(5,25)(7,10)(8,28)(9,29)(11,15)(12,16)(14,31)(17,21)(18,22)(20,32)(23,26)(27,30),\\ (1,13)(2,19)(3,6)(4,24)(5,25)(17,20)(18,22)(20,32)(23,26)(27,30),\\ (1,13)(2,19)(3,6)(4,24)(5,25)(17,20)(18,22)(20,32)(23,26)(27,30),\\ (1,13)(2,19)(3,6)(4,24)(5,25)(17,20)(18,22)(20,32)(23,26)(27,30),\\ (1,13)(2,19)(3,25)(17,20)(18,22)(20,32)(23,26)(27,30),\\ (1,13)(2,19)(3,25)(17,20)(18,22)(20,32)(23,26)(27,30),\\ (1,13)(2,19)(3,25)(23,26)(27,20)(23,26)(27,20)(23,26)(27,20),\\ (1,13)(2,19)(3,25)(23,26)(27,20)(23,26)(27,20)(23,26)(27,20),\\ (1,13)(2,19)(3,25)(23,26)(27,20)(23,26)(27,20)(23,26)(27,20),\\ (1,13)(2,19)(3,25)(27,20$ $P_{38} = Group([(1,21)(2,4)(3,32)(5,30)(6,8)(7,23)(9,14)(10,15)(11,18)(12,28)(13,27)(16,20)(17,25)(19,31)(22,26)(24,29), \\ (1,3)(2,26)(24,29)(26,31)(30,32), (1,5)(2,9)(21,30)(24,21)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)] \cong D_{38} + D_{38} +$ $P_{39} = Group([(1,21)(2,4)(3,32)(5,30)(6,8)(7,23)(9,14)(10,15)(11,18)(12,28)(13,27)(16,20)(17,25)(19,31)(22,26)(24,29), \\ (1,13)(2,19)(3,6)(4,24)(5,25)(7,10)(8,28)(9,29)(11,15)(12,28)(13,27)(16,20)(17,25)(19,31)(22,26)(24,29), \\ (1,13)(2,19)(3,6)(4,24)(5,25)(7,10)(8,28)(9,29)(11,15)(12,28)(13,27)(16,20)(17,27)(19,29)(21,30)(24,31)(28,32)] \cong D_{30}(1,13)(1$ $P_{40} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,10)(3,13)(4,15)(5,16)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,10)(3,13)(4,15)(5,16)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,10)(3,13)(4,15)(5,16)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,10)(3,13)(4,15)(5,16)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,10)(3,13)(4,15)(5,16)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(24,31)(28,32), \\ (1,5)(2,10)(3,13)(4,15)(2,10)(3,13)(24,31)(28,32), \\ (1,5)(2,10)(3,13)(4,15)(2,10)(3,13)(24,31)(28,32), \\ (1,5)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)(2,10)(3,13)(4,15)($ $P_{42} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,6)(2,10)(3,13)(4,15)(5,23,16,31)(7,8,19,21)(9,27,22,32)(12,14,25,26)(18,29)(20,30)(23,31)(27,32), \\ (1,1,6,24)(2,17,10,28)(3,13,15)(5,23,16,31)(7,8,19,21)(9,27,22,32)(12,14,25,26)(18,29)(20,30)(23,31)(27,32), \\ (1,1,6,24)(2,17,10,28)(3,13)(4,15)(5,23,16,31)(7,12,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(11,24)(12,25)(11,24)(12,25)(12,24)$

 $P_{43} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,28)(13,24)$ $P_{44} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)(15,26)(17,27)(19,29)(21,30)(24,31)(25,23)$ $P_{45} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,28)(13,24)$ $P_{47} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,4,6,15)(2,8,10,21)(3,12,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), \\ (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), \\ (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), \\ (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(22,29)(26,31)(30,32), \\ (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(22,29)(26,31)(30,32), \\ (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(22,29)(26,31)(30,32), \\ (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(22,29)(26,31)(30,32), \\ (1,4,6,15)(2,8,10,21)(3,12,12)(3,12,12)(3,$

 $N_2 = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20)(2,29)(26,31)(30,32), (1,4,6,15)(2,9)(21,30)(24,31)(25,29)(26,31)(30,32), (1,4,6,15)(2,9)(21,30)(24,31)(25,29)(26,31)(30,32), (1,4,6,15)(2,9)(21,30)(24,31)(25,29)(26,31)(30,32), (1,4,6,15)(2,9)(21,30)(24,31)(25,29)(26,31)(30,32), (1,4,6,15)(2,9)(21,30)(24,31)(25,29)(26,31)(30,32), (1,4,6,15)(2,9)(21,30)(24,31)(25,29)(26,31)(30,32), (1,4,6,15)(26,29)(26,31)(30,32), (1,4,6,15)(26,29)(26,31)(30,32), (1,4,6,15)(26,29)(26,31)(30,32), (1,4,6,15)(26,29)(26,31)(30,32), (1,4,6,15)(26,29)(26,31)(30,32), (1,4,6,15)(26,29)(26,31)(26,29)(26,31)(26,29)(26,31)(26,29)(26,31)(26,29)(26,31)(26,29)(26,31)(26,29)(26,31)(26,29)(26,31)(26,29)(26,31)(26,29)(26,29)(26,31)(26,29)(26,$ $N_3 = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20)(24,31)(25,24)(16,25)(24,31)(25,24)(16,25)(24,31)(25,24)(16,25)(24,31)(25,24)(16,25)(24,31)(25,24)(16,25)(26,31)(36,32)(17,31,24)(27,29,32)(17,28)(27,29,32)(17,28)(27,29)(27,28)$ $N_4 = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20)(24,31)(25,21)(14,20)(15,24)(16,25)(24,21)(25,21)(14,20)(25,21)(15,24)(16,25)(26,27)(21,28)(22,29)(26,31)(30,32), \\ (1,4,6,15)(2,9,13,12)(2,13,12)$ $N_6 = Group([(1,13)(2,19)(3,5)(4,24)(5,25)(7,10)(8,21)(2,29)(24,32)(23,26)(27,30), (1,3)(2,7)(4,11)(5,21)(3,21)(2,29)(24,26)(27,30), (1,3)(2,7)(4,11)(5,21)(3,21)(2,29)(24,26)(27,30), (1,3)(2,7)(4,11)(5,21)(3,21)(2,29)(24,26)(27,30), (1,3)(2,7)(2,19)(3,21)(27,29)(21,29)(23,21)(27,29)(21,$ $N_7 = Group([(1,8)(2,15)(3,27)(4,10)(5,20)(6,21)(7,31)(9,26)(11,29)(12,27)(13,32)(14,20)(13,21)(13,24)(13,24)(13,24)(14,20)(13,24)(14,20)(13,24)(14,20)(14$ $N_8 = Group([(1,21)(2,4)(3,32)(5,30)(6,8)(7,23)(9,14)(10,15)(11,18)(12,28)(13,27)(16,20)(17,28)(13,27)(16,20)(17,28)(13,27)(16,20)(17,28)(18,27)(18$ $N_{12} = Group([(1,14,6,26)(2,20,10,30)(3,23,13,31)(4,15)(5,16)(7,27,19,32)(8,22,21,9)(11,25,24,12)(17,29,28,18),(1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32)]) \\ \cong C4 \times D80, (1,3)(2,7)(4,11)(5,12)(6,13)(4,15)(5,16)(7,19)(8,11)(1,27,24,32)(14,20)(13,24)(12,25)(14,26)(17,28)(17,28)(17,$ $N_{14} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(12,29)(24,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,28)(12,29)(24,31)(24,3$ $N_{15} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,2,6,10)(3,18,13,29)(4,8,15,21)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32)]) \\ \cong C4 \times D8 + C4$ $N_{16} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,13)(2,19)(3,6)(4,24)(5,25)(7,10)(8,28)(9,20,22,30)(12,23,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,13)(2,19)(3,6)(4,24)(5,25)(7,10)(8,28)(9,20,22,30)(12,23,25)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,13)(2,19)(3,6)(4,24)(5,25)(7,10)(8,28)(9,20,23)(12,23)($

 $N_{19} = Group([(1,11,6,24)(2,17,10,28)(3,4,13,15)(5,23,16,31)(7,8,19,21)(9,27)(21,28)(22,29)(26,31)(30,32),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(29,30)(21,31)(27,32),(1,5)(29,30)(27,32),(1,5)(29,30)(27,32),$

 $N_{21} = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(12,33,25,31)(18,27,29,32), \\ (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), \\ (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), \\ (1,4,6,15)(2,8,10,21)(3,12,14,16,26)(17,28)(18,29)(20,30)(12,33,25)(18,29)(20,30)(18,29,20)(18,29)($ $N_{22} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,2)(4,13)(2,26)(4,12)(2,29)(24,29)(14,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,2)(4,13)(2,29)(24,29)(2$ $N_{23} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,29)(25,28), \\ (1,2,6,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(25,28), \\ (1,2,6,10)(3,13)(4,12)(4,12)(6,10)(3,13)(4,12)(14,22)(14,22)(14,23)(14,22)(14,23)(14,22)(14,23)(14,23)(14,22)(14,23)(14,2$ $N_{24} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,2,6,10)(3,12,12)(14,22)(16,30)(18,24)(19,23)(15,24)(19,23)(19,24)(19,23)(19,24)(19,23)(19,24)(19,23)(19,24)(19,23)(19,24)(19,23)(19,24)(19,2$

 $N_{25} = Group([(1,8)(2,15)(3,27)(4,10)(5,20)(6,21)(7,31)(9,26)(11,29)(12,30)(13,25)(15,26)(17,27)(13,32)(14,20)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32)]) \\ \cong C4 \times D8$ $N_{26} = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(27,32$ $N_{27} = Group([(1,18,16,19)(2,25,22,3)(4,27,26,28)(5,7,6,29)(8,31,30,11)(9,13,10,12)(14,27,24,32)(14,20,26,30)(17,31,28,23), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32)]) \cong C4 \times D8$ $N_{28} = Group([(1,11,6,24)(2,17,10,28)(3,4,13,15)(5,23,16,31)(7,8,19,21)(9,27,22,32)(12,14,25,26)(18,20,29,30),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(27,32)$ $N_{29} = Group([(1,27,5,17)(2,31,9,24)(3,8,12,20)(4,29,14,19)(6,32,16,28)(7,15,18,26)(10,23,22,11)(13,21,25,30),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(27,32)$ $N_{31} = Group([(1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(27,32)$

 $N_{36} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), (1,20)(2,26)(3,17)(4,22)(5,8)(6,30)(7,24)(9,15)(10,14)(11,19)(12,27)(13,28)(16,21)(13,29)(25,32), (1,20)(25,28)(14,20)(25,29)(26,31)(30,32), (1,20)(25,28)(14,20)(25,29)(26,31)(30,32), (1,20)(25,28)(14,20)(25,29)(25,32), (1,20)(25,28)(14,20)(25,29)(25,32), (1,20)(25,28)(14,20)(25,29)(25,32), (1,20)(25,28)(14,20)(25,29)(25,32), (1,20)(25,28)(14,20)(25,29)(25,32), (1,20)(25,28)(14,20)(25,29)(25,32), (1,20)(25,28)(25,29)(25,32), (1,20)(25,28)(25,29)(25,32), (1,20)(25,29)(25,32), (1,20)(25,29)(25,32), (1,20)(25,29)(25,32), (1,20)(25,29)(25,32), (1,20)(25,29)(25,32), (1,20)(25,29)(25,32), (1,20)(25,29)(25,32), (1,20)(25,29)(25,32), (1,20)(25,29)(25,32), (1,20)(25,29)(25,32), (1,20)(25,29)(25,32), (1,20)(25,29)(25,32), (1,20)(25,29)(25,32), (1,20)(25,29)(25,$ $N_{37} = Group([(1,13)(2,19)(3,6)(4,24)(5,25)(7,10)(8,28)(9,29)(11,15)(12,27)(13,28)(14,22)(20,32)(23,26)(27,30), (1,20)(2,26)(3,17)(4,22)(5,8)(6,30)(7,24)(9,15)(10,14)(11,19)(12,27)(13,28)(14,22)(20,32)(23,26)(27,30), (1,20)(2,26)(3,17)(4,22)(5,8)(6,30)(7,24)(9,15)(10,14)(11,19)(12,27)(13,28)(14,22)(20,32)(23,26)(27,30), (1,20)(2,26)(3,17)(4,22)(20,32)(23,26)(27,30), (1,20)(2,26)(3,17)(4,22)(20,32)(23,26)(27,30), (1,20)(23,26)(27,26)($ $N_{38} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), (1,30)(2,14)(3,28)(4,9)(5,21)(6,20)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23)]) \cong C4 \times D8$ $N_{39} = Group([(1,13)(2,19)(3,6)(4,24)(5,25)(7,10)(8,28)(9,29)(11,15)(12,26)(24,29), (1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23)]) \\ \cong C4 \times D8 + C4 \times D$

 $N_{40} = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,24)(12,25)(14,26)(17,29)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(27,32), (1,$ $N_{41} = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(21,30)(24,31)(27,32), (1,5)(21,30)(2$ $N_{43} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(2,7)(4,11)(5,12)(6,13)(2,7)(4,11)(5,12)(6,13)(2,2)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,5)(2,9)(2,30)(12,23,25,31)(18,27,29,32), (1,5)(2,9)(2,30)(12,23,25,31)(18,27,29,32), \\ (1,5)(2,9)(2,30)(12,23,25,31)(18,27,29,32), (1,5)(2,9)(2,30)(12,23,25,31)(18,27,29,32), \\ (1,5)(2,9)(2,30)(12,23,25,31)(18,23,29,23), \\ (1,5)(2,9)(2,30)(12,23,25,31)(18,23,29,23), \\ (1,5)(2,9)(2,30)(12,23,23,23), \\ (1,5)(2,9)(2,30)(12,23,23), \\ (1,5)(2,9)(2,30)(12,23,23), \\ (1,5)(2,9)(2,30)(12,23,23), \\ (1,5)(2,9)(2,30)(12,23,23), \\ (1,5)(2,9)(2,30)(12,23,23), \\ (1,5)(2,9)(2,30)(12,23,23), \\ (1,5)(2,9)(2,30)(12,23,23), \\ (1,5)(2,9)(2,30)(12,23,23), \\ (1,5)(2,9)(2,30)(12,23,23), \\ (1,5)(2,30)(12,23,23), \\ (1,5)(2,30)(12,23,23), \\ (1,5)(2,30)(12,23,23),$ $N_{44} = Group([(1,8)(2,15)(3,27)(4,10)(5,20)(6,21)(7,31)(9,26)(11,29)(25,28), (1,3)(27,32)(14,22)(16,30)(18,24)(19,23)(25,28), (1,3)(27,32)(14,22)(16,30)(18,24)(19,23)(25,28), (1,3)(27,32)(14,22)(16,30)(18,24)(19,23)(25,28), (1,3)(27,32)(14,22)(16,30)(18,24)(19,23)(25,28), (1,3)(27,32)(14,22)(16,30)(18,24)(19,23)(25,28), (1,3)(27,32)(14,22)(16,30)(18,24)(19,23)(25,28), (1,3)(27,32)(14,22)(16,30)(18,24)(19,23)(25,28), (1,3)(27,32)(14,22)(16,30)(18,24)(19,23)(25,28), (1,3)(27,32)(14,22)(16,30)(18,24)(19,23)(19,24)(19,23)(19,24)(19,23)(19,24)(19,23)(19,24)(19,23)(19,24)(19,23)(19,24)(19,23)(19,24)(19,24)(19,24)(19,23)(19,24)$ $N_{45} = Group([(1,18,16,19)(2,25,22,3)(4,27,26,28)(5,7,6,29)(8,31,30,11)(9,13,10,12)(14,17,15,32)(20,24,21,23),(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(2,25,23)(14,20,26,30)(17,21,24)(21,23)(14,20,26,30)(17,21,24)(21,23)(14,20,26,30)(17,21,24)(21,23)(14,20,26,30)(17,21,24)(21,23)(14,20,26,30)(17,21,24)(21,23)(14,20,26,30)(17,21,24)(21,23)(14,20,26,30)(17,21,24)(21,23)(14,20,26,30)(17,21,24)(21,23)(14,20,26,30)(17,21,24)(21,23)(21,24)(21$

 $N_{46} = Group([(1,8)(2,15)(3,27)(4,10)(5,20)(6,21)(7,31)(9,20)(11,29)(12,17)(13,32)(14,20)(14,20)(13,21)(13,21)(14,22)(16,30)(18,24)(19,23)(25,28), \\ (1,11,6,24)(2,17,10,28)(3,4,13,15)(5,23,16,31)(7,8,19,21)(9,27,22,32)(12,14,25,26)(18,29)(20,30)(23,31)(27,32)(14,20)(13,20)(14,2$ $N_{47} = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,3)(2,7,9)(1,2,3)(2,3,1)(2$