	1a	4a	2a	4b	2b	2c	4c	4d	4e	4f	2d	4g	4h	2e	4i	4j	4k	4l	4m	4n
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
χ3	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	-1	1	-1	E(4)	E(4)	E(4)	1	1	-1	1	-1	-E(4)	-E(4)	-E(4)	-1	1	E(4)
χ_{10}	1	E(4)	-1	-1	1	-1	-E(4)	-E(4)	-E(4)	1	1	-1	1	-1	E(4)	E(4)	E(4)	-1	1	-E(4)
χ_{11}	1	-E(4)	-1	1	1	-1	E(4)	-E(4)	E(4)	-1	1	1	-1	-1	E(4)	-E(4)	E(4)	1	-1	-E(4)
χ_{12}	1	E(4)	-1	1	1	-1	-E(4)	E(4)	-E(4)	-1	1	1	-1	-1	-E(4)	E(4)	-E(4)	1	-1	E(4)
χ_{13}	1	-E(4)	1	-1	1	-1	-E(4)	E(4)	E(4)	-1	-1	-1	1	-1	E(4)	E(4)	-E(4)	1	1	-E(4)
χ_{14}	1	E(4)	1	-1	1	-1	E(4)	-E(4)	-E(4)	-1	-1	-1	1	-1	-E(4)	-E(4)	E(4)	1	1	E(4)
χ_{15}	1	-E(4)	1	1	1	-1	-E(4)	-E(4)	E(4)	1	-1	1	-1	-1	-E(4)	E(4)	E(4)	-1	-1	E(4)
χ_{16}	1	E(4)	1	1	1	-1	E(4)	E(4)	-E(4)	1	-1	1	-1	-1	E(4)	-E(4)	-E(4)	-1	-1	-E(4)
χ_{17}	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
χ18	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
χ19	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

Trivial source character table of $G \cong (C4 \times C4)$: C2 at p = 2:

Trivial source character table of $G = (C4 \times C4)$: $C2$ at $p = 2$:																											
Normalisers N_i	$N_1 \mid N_2$	1 9 1	$N_4 \mid N_5$	$N_6 N_7$	$N_8 \mid I$	$V_9 \mid N_{10}$	N_{11}	$N_{12} \mid N$	$N_{13} N_{14}$	N_{15}	$N_{16} \mid N_{17}$	N_{18}	$N_{19} \mid \Lambda$	$N_{20} \mid N_{21}$	N_{22}	$N_{23} \mid N_2$	$_{4} \mid N_{25}$	N_{26}	$N_{27} \mid N_{28}$	N_{29}	$N_{30} \mid N$	$_{31} \mid N_3$	$_{2} \mid N_{33} \mid I$	$V_{34} \mid N$	$V_{35} N_{36} $	$N_{37} \mid N_3$	38
p-subgroups of G up to conjugacy in G	P_1 P_2	P_3	$P_4 \mid P_5$	$P_6 \mid P_7$	$P_8 \mid P_8 \mid I$	$P_{9} \mid P_{10}$	P_{11}	$P_{12} \mid P$	$P_{13} \mid P_{14}$	P_{15}	$P_{16} \mid P_{17}$	P_{18}	$P_{19} \mid P$	$P_{20} P_{21}$	P_{22}	$P_{23} \mid P_{24}$	P_{25}	P_{26}	$P_{27} \mid P_{28}$	P_{29}	$P_{30} \mid P$	$_{31} \mid P_{3}$	$_{2}$ P_{33} I	$P_{34} \mid P$	$P_{35} \mid P_{36} \mid$	$P_{37} \mid P_{38}$	38
Representatives $n_j \in N_i$	1a 1a	1 <i>a</i>	$1a \mid 1a$	1a 1a	$1a \mid 1$	$a \mid 1a$	1 <i>a</i>	$1a \mid 1$	$a \mid 1a$	1 <i>a</i>	$1a \mid 1a$	1 <i>a</i>	$1a \mid 1$	$a \mid 1a$	1 <i>a</i>	$1a \mid 1a$	1a	1 <i>a</i>	1a 1a	1 <i>a</i>	$1a \mid 1$	$a \mid 1a$, 1a	$1a \mid 1$	$1a \mid 1a \mid$	$1a \mid 1\epsilon$	a
$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} + 2 \cdot \chi_{19} + 2 \cdot $		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} + 1 \cdot \chi_{19} + 1 \cdot $	16 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 + 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} + 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} + 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} + 0 \cdot $	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)
$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} + 0 \cdot \chi_{19} + 0 \cdot $	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)
$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} + 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} + 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} + 0 \cdot \chi_{19} + 0 \cdot $	16 0	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)
$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} + 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} + 0 \cdot \chi_{11} + 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_{19} + 1 \cdot \chi_{19} + 1 \cdot \chi_{19} + 0 \cdot $	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)
$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} + 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} + 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_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{19} + 0 \cdot $	8 0	8	8 8	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)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 1 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 1 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{19} +$	8 0	8	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)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 1 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 1 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	8 0	0	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)
$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 + 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} + 0 \cdot \chi_{10} + 0 \cdot $	8 0	0	8 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)
$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} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} + 0 \cdot $	8 0	0	0 8	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	j
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 1 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{19} +$	8 4	8	0 0	4 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)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 1 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{19} +$	8 8	0	8 0	0 0	0	0 0	0	0 8	8 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} + 0 \cdot \chi_{10} + 0 \cdot $	8 0	0	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)
$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} + 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} + 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} + 0 \cdot \chi_{19} + 0 \cdot $	8 4	0	0 8	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 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} + 0 \cdot \chi_{10} + 0 \cdot $	8 0	0	0 8	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)
$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 + 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} + 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} + 0 \cdot \chi_{19} + 0 \cdot $	8 0	0	8 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)
$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} + 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} + 0 \cdot \chi_{10} + 0 \cdot $	8 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)
$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} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20} + 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} + 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} + 0 \cdot \chi_{19} + 0 \cdot $	8 0	8	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)
$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} + 0 \cdot \chi_{10} + 0 \cdot $	4 0	4	4 4	0 4	0	0 0	0	0 (0 0	0	0 0	0	4	1 0	0	0 0	0	0	0 0	0	0 () 0	0	0 (0 0	0 0)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{19} +$	4 4	0	4 0	0 0	0	4 0	0	0 4	4 0	0	0 4	0	0) 4	0	0 0	0	0	0 0	0	0 () 0	0	0 (0 0	0 0)
$1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 1 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	4 0	4	4 4	0 4	0	0 0	0	0 (0 0	0	0 4	4	0	0	4	0 0	0	0	0 0	0	0 ($\sqrt{0}$	0	0 (0 0	0 0)
$1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 1 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 1 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	4 0	4	4 4	0 4	0	0 0	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)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 1 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{19} +$	4 4	4	4 4	4 4	0	0 0	0	4	4 4	4	0 0	0	0	0	0	0 4	0	0	0 0	0	0 () 0	0	0 (0 0	0 0)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 1 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 1 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	4 0	4	4 4	0 4	4	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)
$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} + 0 \cdot \chi_{10} + 0 \cdot $	4 0	4	4 4	0 4	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)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 1 \cdot \chi_{9} + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	4 0	0	4 0	4 0	0	0 4	0	0 () 4	0	0 4	0	0	0	0	0 0	0	0	4 0	0	0 () 0	0	0 (0 0	0 0)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	4 4	0	4 0	0 0	0	0 4	0	0 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)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	4 0	0	4 0	4 0	0	4 0	0	0 () 4	0	0 0	4	0	0	0	0 0	0	0	0 0	4	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} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} + 0 \cdot $	4 0	4	4 4	0 4	0	0 0	0	0 (0 0	0	4 0	0	0	0	0	0 0	0	0	0 0	0	4 () 0	0	0 (0 0	0 0)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	2 2	2	2 2	2 2	0	2 2	0	2 2	2 2	2	0 2	2	0) 2	2	0 2	0	2	2 2	2	0 2	2 0	0	0 (0 0	0 0)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 1 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	2 0	2	2 2	0 2	2	0 0	0	0 (0 0	0	0 2	2	2	2 0	2	0 0	2	0	0 0	0	0 () 2	0	0 (0 0	0 0)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 1 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	2 0	2	2 2	0 2	0	2 2	0	0 (0 0	0	2 0	0	2	2 0	0	0 0	0	2	0 0	0	2 () 0	2	0 (0 0	0 0)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 1 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	2 2	2	2 2	2 2	0	0 0	2	2 2	2 2	2	0 0	0	2	2 0	0	2 2	0	0	0 0	0	0 () 0	0	2 (0 0	0 0)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	2 2	2	2 2	2 2	2	0 0	0	2 2	2 2	2	2 0	0	0	0	0	0 2	2	0	0 0	0	2 () 0	0	0 :	2 0	0 0)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 1 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	2 0	2	2 2	0 2	2	2 2	2	0 (0 0	0	0 0	0	0	0	0	2 0	2	2	0 0	0	0 () 0	0	0 (0 2	0 0)
$1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	2 0	2	2 2	0 2	0	0 0	2	0 (0 0	0	2 2	2	0	0	2	2 0	0	0	0 0	0	2 () 0	0	0 (0 0	2 0)
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{10} +$	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 1	_
				· · · ·																							_

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

 $P_4 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong \mathbb{C}_2^{2}$

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

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

 $P_9 = Group([(1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(7,17,18,27)(10,21,22,30)(13,24,25,31)(19,28,29,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong C4 + C_{10}(10,12)(1$

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

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

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

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

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

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

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

 $P_{34} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,5)(2,10)(3,12)(4,12)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(16,25)(16,23)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,5)(2,10)(3,12)(4,12)$

 $P_{35} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(12,17,13,32)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(4,12)(6,13)(4,12)(12,1$ $P_{36} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,28)$

 $P_{37} = Group([(1,5)(2,9)(3,12)(4,14)(6,20)(1,25)(14,26)(17,20)(13,25)(15,26)(17,20)(13,25)(15,26)(17,20)(13,25)(15,26)(17,20)(13,25)(15,26)(17,20)(13,25)(15,26)(17,20)(13,25)(15,26)(17,20)(13,25)(15,26)(17,20)(13,25)(15,26)(17,20)(13,25)(15,26)(17,20)(13,25)(15,26)(17,20$ $P_{38} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,28)(22,29)(26,31)(27,32)(14,26)(17,28)(22,29)(26,31)(27,32)(14,26)(17,28)(22,29)(26,31)(27,32)(14,26)(27,28)(22,29)(26,31)(27,32)(14,26)(27,28)(22,29)(26,31)(27,32)(14,26)(27,28)(22,29)(26,31)(27,32)(14,26)(27,28)(22,29)(26,31)(27,32)(14,26)(27,28)(22,29)(26,31)(27,32)(14,26)(27,28)$

 $N_1 = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20)(24,31)(25,24)(16,25)(24,29)(26,31)(30,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,20)(13,24)(15,24)(16,25)(24,29)(26,31)(30,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(12,29)(26,31)(16,26)(17,28)(17,28$

 $N_3 = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20)(24,31)(25,24)(16,25)(24,29)(26,31)(30,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,20)(13,24)(15,24)(16,25)(24,29)(26,31)(30,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(12,29)(26,31)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28$ $N_4 = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20)(24,31)(25,24)(16,25)(24,29)(26,31)(30,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,20)(13,24)(15,24)(16,25)(24,29)(26,31)(30,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(12,29)(26,31)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28)(16,26)(17,28$ $N_5 = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20)(24,31)(25,24)(16,25)(24,29)(26,31)(30,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,20)(13,24)(15,24)(16,25)(24,29)(26,31)(30,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(12,29)(26,31)(16,26)(17,28)(17,28$

 $N_7 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(1,24)(12,25)(14,26)(17,28)(13,29)(24,31)(27,32), (1,2,6,10)(3,13)(4,15)(5,16)(7,19)(8,21)(13,24)(13,25)(15,24)(16,25)(17,27)(19,29)(21,30)(24,31)(28,32), (1,2,6,10)(3,13)(4,15)(5,16)(7,19)(8,21)(1,24)(12,25)(14,26)(17,28)(13,24)(14,26)(17,28)(13,24)(14,26)(17,28)(13,24)(14,26)(17,28)(17,28)(17,$

 $N_9 = Group([(1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(7,17,18,27)(10,21,22,30)(13,24,25,31)(19,28,29,32), (1,5)(2,9)(21,30)(24,31)(28,32), (1,2,6,10)(3,12,12,23)(14,20,26,30)(17,21,22,30)(13,24,25,31)(19,28,29,32), (1,5)(2,9)(21,30)(24,31)(28,32), (1,2,6,10)(3,12,12,23)(14,20,26,30)(17,21,22,30)(13,24,25,31)(19,28,29,32), (1,5)(2,9)(21,30)(24,31)(28,32), (1,2,6,10)(3,12,12,23)(14,20,26,30)(17,21,22,30)(13,24,25,31)(19,28,29,32), (1,5)(2,9)(21,30)(24,31)(28,32), (1,2,6,10)(3,12,23)(14,20,26,30)(17,21,22,30)(13,24,25,31)(19,28,29,32), (1,3)(2,7)(4,11)(5,12)(6,13)(6,$

 $N_{10} = Group([(1,15,5,26)(2,21,9,30)(3,24,12,31)(4,16,14,6)(7,28,18,32)(4,22,20,10)(11,25,23,13)(17,29,27,19),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32)] \\ \cong (C4 \times C4) : C2 = C4 \times C4 : C4 \times C4 :$

 $N_{19} = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,24)(14,26,26,30)(17,31,28,23),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(17,28)(17,2$ $N_{20} = Group([(1,2,6,10)(3,18,13,29)(4,815,21)(5,9,16,22)(7,25,19,12)(11,23)(3,25)(15,26)(17,27)(9,29)(21,30)(23,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(23,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(23,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(12,25)(14,26)(17,27)(19,29)(21,24)(12,25)(14,26)(17,27)(19,29)(21,24)(12,25)(14,26)(17,27)(19,29)(21,24)(12,25)(14,26)(17,27)(19,29)(21,24)(12,25)(14,26)(17,27)(19,29)(21,24)(12,25)(14,26)(17,27)(19,29)(21,24)(12,25)(14,26)(17,27)(19,29)(21,24)(12,25)(14,26)(17,27)(19,29)(21,24)(12,25)(14,26)(17,27)(19,29)(21,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(11,$ $N_{21} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(7,17,18,27)(10,21,22,30)(13,24,25,31)(19,28,29,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,29,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,29,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(2,29)(21,20)(13,24)(21,29)($

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

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

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

 $N_{29} = Group([(1,13)(2,19)(3,6)(4,24)(5,25)(7,10)(8,28)(9,29)(11,15)(12,23)(6,15,16,26)(7,71,18,27)(10,21,22,30)(13,24,25,31)(19,28,29,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,5)(29,32)(21,20)$

 $N_{30} = Group([(1,8,16,30)(2,15,22,14)(3,27,25,28)(4,9,26,10)(5,20,6,21)(7,31,29,11)(12,17,13,32)(18,24)(19,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(19,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(27,32)(27,32), (1,5)(27,32)(27,32), (1,5)(27,32)(27,32)(27,32), (1,5)(27,32)(27,32)(27,32), (1,5)(27,32)(27,32), (1,5)(27,32)(27,32), (1,5)(27,32)(27,32), (1,5)(27,32)(27,32$ $N_{31} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(29,20)(21,30)(24,31)(27,32), (1,5)(29,20)(21,30)(24,31)(27,32), (1,5)(29,20)(21,30)(24,31)(27,32), (1,5)(29,20)(21,30)(24,31)(27,32), (1,5)(29,20)(21,30)(24,31)(27,32), (1,5)(29,20)(21,30)(24,31)(27,32), (1,5)(29,20)(21,30)(24,31)(27,32), (1,5)(29,20)(21,30)(24,31)(27,32), (1,5)(29,20)(21,30)(24,31)(27,32), (1,5)(29,20)(21,30)(24,31)(27,32), (1,5)(29,20)(21,30)(24,31)(27,32), (1,5)(29,20)(21,30)(24,31)(27,32), (1,5)(29,20)(21,30)$ $N_{32} = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,11,5,23)(2,17,9,27)(3,4,12,14)(6,24,16,31)(7,8,18,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(2,9)(21,30)(24,31)(27,32),(1,5)(27,32)(27,32),(1,5)(27,32)$ $N_{34} = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,24)(22,29)(26,31)(30,32), (1,4)(2,5)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,4)(5,16)(7,17)(8,27)(19,29)(21,30)(24,31)(28,32), (1,4)(19,28)(29,29)(26,31)(30,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(19,22)(11,24)(19,28)(29,29)(26,31)(30,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(19,22)(11,24)(19,22)(19$ $N_{35} = Group([(1,8,16,30)(2,15,22,14)(3,27,25,28)(4,9,26,10)(5,20,6,21)(7,31,29)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(21,30)(21,31)(21,3$

 $N_{36} = Group([(1,18,16,19)(2,25,22,3)(4,27,26,28)(5,7,6,29)(8,31,30,11)(9,13,10,12)(14,27,24,32)(14,20,26,30)(23,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(13,24,25,31)(19,28,29,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(13,24)(25,14)(19,28)(19$ $N_{37} = Group([(1, 8, 16, 30)(2, 15, 22, 14)(3, 27, 25, 28)(4, 9, 26, 10)(5, 20, 32)(13, 25, 26)(19, 21, 29, 32)(13, 21, 29, 21, 29, 21)(13, 21, 29, 21, 29, 21, 29, 21)(13, 21, 29, 21, 29, 21, 29, 21)(13, 21, 29, 21, 29$