The group G is isomorphic to the group labelled by [16, 11] in the Small Groups library. Ordinary character table of $G \cong C2 \times D8$:

	1 <i>a</i>	2a	2b	2c	4a	4b	2d	2e	2f	2g
χ_1	1	1	1	1	1	1	1	1	1	1
χ_2	1	1	-1	-1	1	-1	1	-1	1	-1
χ_3	1	1	-1	-1	-1	1	-1	1	1	-1
χ_4	1	1	1	1	-1	-1	1	1	-1	-1
χ_5	1	1	1	1	-1	-1	-1	-1	1	1
χ_6	1	1	-1	-1	-1	1	1	-1	-1	1
χ_7	1	1	-1	-1	1	-1	-1	1	-1	1
χ_8	1	1	1	1	1	1	-1	-1	-1	-1
χ_9	2	-2	2	-2	0	0	0	0	0	0
χ_{10}	2	-2	-2	2	0	0	0	0	0	0

Trivial source character table of $G \cong C2 \times D8$ at p = 2:

 $P_1 = Group([()]) \cong 1$

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Trivial source character table of $G \cong C2 \times D8$ at $p = 2$:																											
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Normalisers N_i	N_1	N_2	N_3	N_4	N_5	N_6	N_7	N_8	N_9	N_{10}	N_{11}	N_{12}	N_{13}	N_{14}	N_{15}	N_{16}	N_{17}	N_{18}	N_{19}	N_{20}	N_{21}	N_{22}	N_{23}	N_{24}	N_{25}	N_{26}	N_{27}
$ \begin{array}{c} 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 + 2 \cdot \chi_9 + 2 \cdot \chi_9 & 16 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & $	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	P_9	P_{10}	P_{11}	P_{12}	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}
$ \begin{vmatrix} 1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_9 + 1 \cdot \chi_1 + 1 \cdot \chi_9 + 1 \cdot \chi_1 + 1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_9 + 1 \cdot \chi_1 + 1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_9 + 1 \cdot \chi_1 + 1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_9 + 1 \cdot \chi_1 + 1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_1 + 1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_3 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_3 + 1 \cdot \chi_1 + 1 \cdot \chi_1 + 1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_1 + 1$	Representatives $n_j \in N_i$	1 <i>a</i>	1 <i>a</i>	1a	1a	1a	1 <i>a</i>	1a																				
$ \begin{array}{c} 1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_5 + 2 \cdot \chi_5 + 1 \cdot \chi_5 + 0 \cdot \chi_5 + 2 \cdot \chi_5 + 0 \cdot \chi_5 \\ 1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 \\ 1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 \\ 1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 + 1 \cdot \chi_5 \\ 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 + 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 + 1 \cdot \chi_5 \\ 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 + 1 \cdot \chi_5 + 0 \cdot \chi_5 \\ 1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_5 + 1 \cdot \chi_5 + 1 \cdot \chi_5 \\ 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 + 1 \cdot \chi_5 + 0 \cdot \chi_5 \\ 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 + 1 \cdot \chi_5 + 0 \cdot \chi_5 \\ 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 \\ 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 \\ 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 \\ 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 \\ 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 \\ 1 \cdot \chi_5 + 0 \cdot \chi_5 + 0 \cdot \chi_5 \\ 1 \cdot \chi_5 + 0 \cdot \chi_5 $	$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 2 \cdot \chi_9 + 2 \cdot \chi_{10}$	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
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	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	0	0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10}$	8	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
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 2 \cdot \chi_{10}$	8	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
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 2 \cdot \chi_9 + 0 \cdot \chi_{10}$	8	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
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10}$	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
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10}$	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
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10}$	8	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
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	4	4	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	4	4	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
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	4	4	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
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	4	4	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
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	4	4	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
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	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
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	4	4	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
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10}$	4	0	2	4	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10}$	4	0	2	0	4	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10}$	4	0	0	4	0	0	2	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
$\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}}{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}} = 2 2 2 2 2 2 2 2 2 2$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10}$	4	0	0	0	4	0	2	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
$\frac{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}}{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}} = 2 2 0 0 0 2 2 2 0 0 $	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	2	2	0	0	0	2	2	0	0	2	2	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0
$\frac{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_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}} = 2 2 0 2 2 0 0 0 2 2 $	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	2	2	2	2	2	2	0	0	0	2	0	2	2	0	0	2	2	0	0	0	2	0	0	0	0	0	0
$\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}}{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}} = \frac{2}{2} = \frac{2}{2$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	2	2	0	0	0	2	0	2	2	2	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0
$\frac{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}}{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 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}} = 2 2 0 0 0 0 0 0 0 0 $	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	2	2	0	2	2	0	2	2	2	0	2	0	2	0	0	0	0	2	2	0	0	0	2	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} 2 2 2 0 0 0 2 2 0 0$	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	2	2	2	0	0	0	2	0	0	0	2	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0
	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	2	2	0	2	2	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	2	0	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} \boxed{1} $	$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	2	2	2	0	0	0	0	2	2	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0
	$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	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([(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16)]) \cong C2
P_3 = Group([(1,7)(2,4)(3,16)(5,14)(6,15)(8,11)(9,13)(10,12)]) \cong \mathbb{C}2
P_4 = Group([(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16)]) \cong C2
P_5 = Group([(1,11)(2,14)(3,15)(4,5)(6,16)(7,8)(9,10)(12,13)]) \cong C2
P_6 = Group([(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15)]) \cong C2
P_7 = Group([(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16)]) \cong C2
P_8 = Group([(1,9)(2,12)(3,4)(5,15)(6,7)(8,16)(10,11)(13,14)]) \cong C2
P_{11} = Group([(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16)]) \cong \mathbf{C2} \times \mathbf{C2}
P_{14} = Group([(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,13,5,6)(2,10,8,3)(4,16,11,12)(7,15,14,9)]) \cong C4
P_{15} = Group([(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,16,5,12)(2,15,8,9)(3,7,10,14)(4,13,11,6)]) \cong C4
P_{18} = Group([(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16)]) \cong \mathbf{C2} \times \mathbf{C2}
P_{19} = Group([(1,11)(2,14)(3,15)(4,5)(6,16)(7,8)(9,10)(12,13),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16)]) \cong \mathbf{C2} \times \mathbf{C2}
P_{20} = Group([(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15)]) \cong D8
P_{22} = Group([(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,9)(2,12)(3,4)(5,15)(6,7)(8,16)(10,11)(13,14),(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15)]) \cong D8
P_{24} = Group([(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,7)(2,4)(3,16)(5,14)(6,15)(8,11)(9,13)(10,12)]) \cong D8
P_{26} = Group([(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,9)(2,12)(3,4)(5,15)(6,7)(8,16)(10,11)(13,14),(1,7)(2,4)(3,16)(5,14)(6,15)(8,11)(9,13)(10,12)]) \cong D8
P_{27} = Group([(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15)]) \cong C2 \times D8
N_1 = Group([(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16)]) \cong \mathbb{C}2 \times \mathbb{D}8
N_2 = Group([(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16)]) \cong \mathbb{C}2 \times \mathbb{D}8
N_4 = Group([(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16)]) \cong C2 \times D8
N_5 = Group([(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16)]) \cong C2 \times D8
N_9 = Group([(1,9)(2,12)(3,4)(5,15)(6,7)(8,16)(10,11)(13,14),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16)]) \cong C2 \times D8
N_{10} = Group([(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16)]) \cong C2 \times D8
N_{11} = Group([(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16)]) \cong C2 \times D8
N_{12} = Group([(1,7)(2,4)(3,16)(5,14)(6,15)(8,11)(9,13)(10,12), (1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16), (1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15), (1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16)]) \cong C2 \times D8
N_{13} = Group([(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16)]) \cong C2 \times D8
N_{14} = Group([(1,13,5,6)(2,10,8,3)(4,16,11,12)(7,15,14,9),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16)]) \cong C2 \times D8
N_{15} = Group([(1, 16, 5, 12)(2, 15, 8, 9)(3, 7, 10, 14)(4, 13, 11, 6), (1, 5)(2, 8)(3, 10)(4, 11)(6, 13)(7, 14)(9, 15)(12, 16), (1, 2)(3, 13)(4, 7)(5, 8)(6, 10)(9, 16)(11, 14)(12, 15), (1, 3)(2, 6)(4, 9)(5, 10)(7, 12)(8, 13)(11, 15)(14, 16)]) \cong C2 \times D8
N_{19} = Group([(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,11)(2,14)(3,15)(4,5)(6,16)(7,8)(9,10)(12,13),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16)]) \cong C2 \times C2 \times C2
N_{20} = Group([(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16)]) \cong C2 \times D8
N_{21} = Group([(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16)]) \cong C2 \times D8
N_{22} = Group([(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15),(1,9)(2,12)(3,4)(5,15)(6,7)(8,16)(10,11)(13,14),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16)]) \cong C2 \times D8
N_{23} = Group([(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15)]) \cong C2 \times D8
N_{24} = Group([(1,7)(2,4)(3,16)(5,14)(6,15)(8,11)(9,13)(10,12),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15)]) \cong C2 \times D8
N_{25} = Group([(1,13,5,6)(2,10,8,3)(4,16,11,12)(7,15,14,9),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15)]) \cong C2 \times D8
N_{26} = Group([(1,7)(2,4)(3,16)(5,14)(6,15)(8,11)(9,13)(10,12),(1,9)(2,12)(3,4)(5,15)(6,7)(8,16)(10,11)(13,14),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16),(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15)]) \cong C2 \times D8
N_{27} = Group([(1,2)(3,13)(4,7)(5,8)(6,10)(9,16)(11,14)(12,15),(1,3)(2,6)(4,9)(5,10)(7,12)(8,13)(11,15)(14,16),(1,4)(2,7)(3,9)(5,11)(6,12)(8,14)(10,15)(13,16),(1,5)(2,8)(3,10)(4,11)(6,13)(7,14)(9,15)(12,16)]) \cong C2 \times D8
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