The group G is isomorphic to the group labelled by [48, 13] in the Small Groups library.
Ordinary character table of $G \cong$ C12 : C4:

	$1a$	$4a$	$4b$	$2a$	$2b$	$3a$	$4c$	$4d$	$4e$	$12a$	$2c$	$6a$	$6b$	$4f$	$12b$	$12c$	$6c$	$12d$
χ_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
χ_3	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
χ_5	1	$-E(4)$	−1	−1	1	1	$E(4)$	$E(4)$	1	−1	−1	−1	1	$-E(4)$	1	−1	−1	1
χ_6	1	$E(4)$	−1	−1	1	1	$-E(4)$	$-E(4)$	1	−1	−1	−1	1	$E(4)$	1	−1	−1	1
χ_7	1	$-E(4)$	1	−1	1	1	$-E(4)$	$E(4)$	−1	1	−1	−1	1	$E(4)$	−1	1	−1	−1
χ_8	1	$E(4)$	1	−1	1	1	$E(4)$	$-E(4)$	−1	1	−1	−1	1	$-E(4)$	−1	1	−1	−1
χ_9	2	0	−2	−2	2	−1	0	0	2	1	−2	1	−1	0	−1	1	1	−1
χ_{10}	2	0	−2	2	2	−1	0	0	−2	1	2	−1	−1	0	1	1	−1	1
χ_{11}	2	0	2	−2	2	−1	0	0	−2	−1	−2	1	−1	0	1	−1	1	1
χ_{12}	2	0	2	2	2	−1	0	0	2	−1	2	−1	−1	0	−1	−1	−1	−1
χ_{13}	2	0	0	2	−2	2	0	0	0	0	−2	2	−2	0	0	0	−2	0
χ_{14}	2	0	0	−2	−2	2	0	0	0	0	2	−2	−2	0	0	0	2	0
χ_{15}	2	0	0	−2	−2	−1	0	0	0	$-E(12)^7+E(12)^{11}$	2	1	1	0	$E(12)^7-E(12)^{11}$	$E(12)^7-E(12)^{11}$	−1	$-E(12)^7+E(12)^{11}$
χ_{16}	2	0	0	−2	−2	−1	0	0	0	$E(12)^7-E(12)^{11}$	2	1	1	0	$-E(12)^7+E(12)^{11}$	$-E(12)^7+E(12)^{11}$	−1	$E(12)^7-E(12)^{11}$
χ_{17}	2	0	0	2	−2	−1	0	0	0	$-E(12)^7+E(12)^{11}$	−2	−1	1	0	$-E(12)^7+E(12)^{11}$	$E(12)^7-E(12)^{11}$	1	$E(12)^7-E(12)^{11}$
χ_{18}	2	0	0	2	−2	−1	0	0	0	$E(12)^7-E(12)^{11}$	−2	−1	1	0	$E(12)^7-E(12)^{11}$	$-E(12)^7+E(12)^{11}$	1	$-E(12)^7+E(12)^{11}$

Trivial source character table of $G \cong$ C12 : C4 at $p = 2$:

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}
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}
Representatives $n_j \in N_i$	$1a$	$3a$	$1a$	$3a$	$1a$	$3a$	$1a$	$3a$	$1a$	$3a$	$1a$	$3a$	$1a$	$3a$	$1a$	$1a$	$1a$	$3a$	$1a$	$1a$	$1a$
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 2 \cdot \chi_{13} + 2 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18}$	16	−8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 2 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	8	8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18}$	8	−4	8	−4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	8	8	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	8	−4	0	0	8	−4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 2 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	8	8	0	0	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	8	−4	0	0	0	0	8	−4	0	0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	4	−2	4	−2	4	−2	4	−2	4	−2	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	4	4	0	0	4	4	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	4	−2	0	0	4	−2	0	0	0	0	4	−2	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	4	4	0	0	4	4	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	4	−2	0	0	4	−2	0	0	0	0	0	0	4	−2	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	4	4	4	4	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	2	2	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	2	−1	2	−1	2	−1	2	−1	2	−1	2	−1	2	−1	0	0	2	−1	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	2	2	2	2	2	2	2	2	2	2	0	0	0	0	2	0	0	0	2	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	2	0	0	0	2	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48)]) \cong$ C2
$P_3 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48)]) \cong$ C2
$P_4 = Group([(1,14)(2,21)(3,25)(4,5)(6,29)(7,32)(8,9)(10,36)(11,12)(13,39)(15,16)(17,42)(18,19)(20,43)(22,23)(24,46)(26,27)(28,47)(30,31)(33,34)(35,48)(37,38)(40,41)(44,45)]) \cong$ C2
$P_5 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48)]) \cong$ C2 x C2
$P_6 = Group([(1,3,5,12)(2,7,9,19)(4,11,14,25)(6,13,16,27)(8,18,21,32)(10,20,23,34)(15,26,29,39)(17,28,31,41)(22,33,36,43)(24,35,38,45)(30,40,42,47)(37,44,46,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48)]) \cong$ C4
$P_7 = Group([(1,11,5,25)(2,18,9,32)(3,14,12,4)(6,26,16,39)(7,21,19,8)(10,33,23,43)(13,29,27,15)(17,40,31,47)(20,36,34,22)(24,44,38,48)(28,42,41,30)(35,46,45,37), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48)]) \cong$ C4
$P_8 = Group([(1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48)]) \cong$ C4
$P_9 = Group([(1,19,4,32)(2,25,8,12)(3,9,11,21)(5,7,14,18)(6,45,15,48)(10,47,22,41)(13,38,26,46)(16,35,29,44)(17,34,30,43)(20,42,33,31)(23,40,36,28)(24,39,37,27), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48)]) \cong$ C4
$P_{10} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,3,5,12)(2,7,9,19)(4,11,14,25)(6,13,16,27)(8,18,21,32)(10,20,23,34)(15,26,29,39)(17,28,31,41)(22,33,36,43)(24,35,38,45)(30,40,42,47)(37,44,46,48)]) \cong$ C4 x C2
$P_{11} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43)]) \cong$ C4 x C2
$P_{12} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,19,4,32)(2,25,8,12)(3,9,11,21)(5,7,14,18)(6,45,15,48)(10,47,22,41)(13,38,26,46)(16,35,29,44)(17,34,30,43)(20,42,33,31)(23,40,36,28)(24,39,37,27)]) \cong$ C4 x C2
$P_{13} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,3,5,12)(2,7,9,19)(4,11,14,25)(6,13,16,27)(8,18,21,32)(10,20,23,34)(15,26,29,39)(17,28,31,41)(22,33,36,43)(24,35,38,45)(30,40,42,47)(37,44,46,48), (1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43)]) \cong$ C4 : C4

$N_1 = Group([(1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43), (1,3,5,12)(2,7,9,19)(4,11,14,25)(6,13,16,27)(8,18,21,32)(10,20,23,34)(15,26,29,39)(17,28,31,41)(22,33,36,43)(24,35,38,45)(30,40,42,47)(37,44,46,48), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,6,17)(2,10,24)(3,13,28)(4,15,30)(5,16,31)(7,20,35)(8,22,37)(9,23,38)(11,26,40)(12,27,41)(14,29,42)(18,33,44)(19,34,45)(21,36,46)(25,39,47)(32,43,48)]) \cong$ C12 : C4
$N_2 = Group([(1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43), (1,3,5,12)(2,7,9,19)(4,11,14,25)(6,13,16,27)(8,18,21,32)(10,20,23,34)(15,26,29,39)(17,28,31,41)(22,33,36,43)(24,35,38,45)(30,40,42,47)(37,44,46,48), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,6,17)(2,10,24)(3,13,28)(4,15,30)(5,16,31)(7,20,35)(8,22,37)(9,23,38)(11,26,40)(12,27,41)(14,29,42)(18,33,44)(19,34,45)(21,36,46)(25,39,47)(32,43,48)]) \cong$ C12 : C4
$N_3 = Group([(1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43), (1,3,5,12)(2,7,9,19)(4,11,14,25)(6,13,16,27)(8,18,21,32)(10,20,23,34)(15,26,29,39)(17,28,31,41)(22,33,36,43)(24,35,38,45)(30,40,42,47)(37,44,46,48), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,6,17)(2,10,24)(3,13,28)(4,15,30)(5,16,31)(7,20,35)(8,22,37)(9,23,38)(11,26,40)(12,27,41)(14,29,42)(18,33,44)(19,34,45)(21,36,46)(25,39,47)(32,43,48)]) \cong$ C12 : C4
$N_4 = Group([(1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43), (1,3,5,12)(2,7,9,19)(4,11,14,25)(6,13,16,27)(8,18,21,32)(10,20,23,34)(15,26,29,39)(17,28,31,41)(22,33,36,43)(24,35,38,45)(30,40,42,47)(37,44,46,48), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,6,17)(2,10,24)(3,13,28)(4,15,30)(5,16,31)(7,20,35)(8,22,37)(9,23,38)(11,26,40)(12,27,41)(14,29,42)(18,33,44)(19,34,45)(21,36,46)(25,39,47)(32,43,48)]) \cong$ C12 : C4
$N_5 = Group([(1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43), (1,3,5,12)(2,7,9,19)(4,11,14,25)(6,13,16,27)(8,18,21,32)(10,20,23,34)(15,26,29,39)(17,28,31,41)(22,33,36,43)(24,35,38,45)(30,40,42,47)(37,44,46,48), (1,6,17)(2,10,24)(3,13,28)(4,15,30)(5,16,31)(7,20,35)(8,22,37)(9,23,38)(11,26,40)(12,27,41)(14,29,42)(18,33,44)(19,34,45)(21,36,46)(25,39,47)(32,43,48)]) \cong$ C12 : C4
$N_6 = Group([(1,3,5,12)(2,7,9,19)(4,11,14,25)(6,13,16,27)(8,18,21,32)(10,20,23,34)(15,26,29,39)(17,28,31,41)(22,33,36,43)(24,35,38,45)(30,40,42,47)(37,44,46,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43), (1,6,17)(2,10,24)(3,13,28)(4,15,30)(5,16,31)(7,20,35)(8,22,37)(9,23,38)(11,26,40)(12,27,41)(14,29,42)(18,33,44)(19,34,45)(21,36,46)(25,39,47)(32,43,48)]) \cong$ C12 : C4
$N_7 = Group([(1,11,5,25)(2,18,9,32)(3,14,12,4)(6,26,16,39)(7,21,19,8)(10,33,23,43)(13,29,27,15)(17,40,31,47)(20,36,34,22)(24,44,38,48)(28,42,41,30)(35,46,45,37), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43), (1,6,17)(2,10,24)(3,13,28)(4,15,30)(5,16,31)(7,20,35)(8,22,37)(9,23,38)(11,26,40)(12,27,41)(14,29,42)(18,33,44)(19,34,45)(21,36,46)(25,39,47)(32,43,48)]) \cong$ C12 : C4
$N_8 = Group([(1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48)]) \cong$ C4 x C2
$N_9 = Group([(1,19,4,32)(2,25,8,12)(3,9,11,21)(5,7,14,18)(6,45,15,48)(10,47,22,41)(13,38,26,46)(16,35,29,44)(17,34,30,43)(20,42,33,31)(23,40,36,28)(24,39,37,27), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48)]) \cong$ C4 x C2
$N_{10} = Group([(1,3,5,12)(2,7,9,19)(4,11,14,25)(6,13,16,27)(8,18,21,32)(10,20,23,34)(15,26,29,39)(17,28,31,41)(22,33,36,43)(24,35,38,45)(30,40,42,47)(37,44,46,48), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43), (1,6,17)(2,10,24)(3,13,28)(4,15,30)(5,16,31)(7,20,35)(8,22,37)(9,23,38)(11,26,40)(12,27,41)(14,29,42)(18,33,44)(19,34,45)(21,36,46)(25,39,47)(32,43,48)]) \cong$ C12 : C4
$N_{11} = Group([(1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,3,5,12)(2,7,9,19)(4,11,14,25)(6,13,16,27)(8,18,21,32)(10,20,23,34)(15,26,29,39)(17,28,31,41)(22,33,36,43)(24,35,38,45)(30,40,42,47)(37,44,46,48)]) \cong$ C4 : C4
$N_{12} = Group([(1,19,4,32)(2,25,8,12)(3,9,11,21)(5,7,14,18)(6,45,15,48)(10,47,22,41)(13,38,26,46)(16,35,29,44)(17,34,30,43)(20,42,33,31)(23,40,36,28)(24,39,37,27), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43)]) \cong$ C4 : C4
$N_{13} = Group([(1,2,4,8)(3,19,11,32)(5,9,14,21)(6,24,15,37)(7,25,18,12)(10,30,22,17)(13,45,26,48)(16,38,29,46)(20,47,33,41)(23,42,36,31)(27,35,39,44)(28,34,40,43), (1,3,5,12)(2,7,9,19)(4,11,14,25)(6,13,16,27)(8,18,21,32)(10,20,23,34)(15,26,29,39)(17,28,31,41)(22,33,36,43)(24,35,38,45)(30,40,42,47)(37,44,46,48), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48)]) \cong$ C4 : C4