Trivial source character table of $G \cong (C2 \times Q8)$: C2 at p = 2:

p-subgroups of G up to conjugacy in GRepresentatives $n_i \in N_i$ $\cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_$ $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{17} = 0$ $1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot$ $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} \begin{vmatrix} 4 & 4 & 0 & 0 & 0 & 0 & 0 & 4 & 4 \end{vmatrix}$ $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot$ $\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{11} + 0$

 $\begin{array}{l} P_2 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong C2 \\ P_3 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong C2 \\ P_4 = Group([(1,17)(2,11)(3,8)(4,7)(5,32)(6,28)(9,31)(10,24)(12,30)(13,21)(14,29)(15,19)(16,27)(18,26)(20,25)(22,23)]) \cong C2 \\ P_5 = Group([(1,19)(2,13)(3,10)(4,17)(5,18)(6,7)(8,11)(9,12)(14,32)(15,28)(16,29)(20,31)(21,24)(22,25)(23,30)(26,27)]) \cong C2 \\ P_6 = Group([(1,30)(2,26)(3,27)(4,9)(5,8)(6,20)(7,23)(10,14)(11,29)(12,28)(13,32)(15,22)(16,21)(17,25)(18,24)(19,31)]) \cong C2 \\ P_6 = Group([(1,30)(2,26)(3,27)(4,9)(5,8)(6,20)(7,23)(10,14)(11,29)(12,28)(13,32)(15,22)(16,21)(17,25)(18,24)(19,31)]) \cong C2 \\ P_6 = Group([(1,30)(2,26)(3,27)(4,9)(5,8)(6,20)(7,23)(10,14)(11,29)(12,28)(13,32)(15,22)(16,21)(17,25)(18,24)(19,31)]) \cong C2 \\ P_7 = Group([(1,30)(2,26)(3,27)(4,9)(5,8)(6,20)(7,23)(10,14)(11,29)(12,28)(13,32)(15,22)(16,21)(17,25)(18,24)(19,31)]) \cong C2 \\ P_8 = Group([(1,30)(2,26)(3,27)(4,9)(5,8)(6,20)(7,23)(10,14)(11,29)(12,28)(13,32)(15,22)(16,21)(17,25)(18,24)(19,24)(12,25)(18,24)(19,24)(12,25)(18,24)(19,24)(19,24)(12,24)(12,25)(18,24)(19,24)(12,2$

 $P_7 = Group([(1,2)(3,19)(4,8)(5,22)(6,10)(7,13)(9,16)(11,28)(12,18)(14,30)(15,21)(17,24)(20,26)(23,27)(25,29)(31,32)]) \cong C2 \\ P_8 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong C2 \times C2 \\ P_9 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32)]) \cong C4$

$$\begin{split} P_9 &= 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), (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 \\ P_{10} &= 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), (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)]) \cong C4 \\ P_{11} &= 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), (1,13,6,13)(2,7,10,19)(4,24,15,11)(5,12,6,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27)]) \cong C4 \\ P_{12} &= 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), (1,12,6,25)(2,18,10,29)(3,16,13,5)(4,31,15,23)(7,22,19,9)(8,32,21,27)(11,14,24,26)(17,20,28,30)]) \cong C4 \\ P_{13} &= 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), (1,17)(2,11)(3,8)(4,7)(5,32)(6,28)(9,31)(10,24)(12,30)(13,21)(14,29)(15,19)(16,27)(18,26)(20,25)(22,23)]) \cong C4 \\ P_{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)(18,29)(20,30)(23,31)(27,32), (1,17)(2,11)(3,8)(4,7)(5,32)(6,28)(9,31)(10,24)(12,30)(13,21)(14,29)(15,19)(16,27)(18,26)(20,25)(22,23)]) \cong C2 \times C2 \\ P_{15} &= 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), (1,18,6,29)(2,11,24)(21,25)(3,10,14)(14,29)(15,19)(16,27)(18,26)(20,25)(22,23)]) \cong C4 \\ P_{16} &= 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), (1,18,6,29)(2,11,24)(21,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,19)(2,13)(3,10)(4,17)(5,18)(6,7)(8,11)(9,12)(14,32)(15,28)(16,29)(20,31)(21,24)(22,25)(23,30)(26,27)]) \cong C2 \times C2 \\ P_{17} &= 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), (1,19)(2,13)(3,10)($$

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

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

 $P_{33} = Group([(1, 6)(2, 10)(3, 13)(4, 15)(5, 16)(7, 19)(8, 21)(9, 22)(11, 24)(12, 25)(14, 26)(17, 28)(18, 29)(20, 30)(23, 31)(27, 32), (1, 22, 6.9)(2, 16, 10, 5)(3, 18, 13, 29)(4, 30, 15, 29)(11, 24)(12, 25)(14, 26)(17, 28)(18, 29)(20, 30)(23, 31)(27, 32), (1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 17)(19, 29)(21, 24)(12, 25)(14, 26)(17, 27)(19, 29)(21, 30)(23, 31)(27, 32), (1, 5)(2, 9)(3, 12)(3, 13)(4, 15)(5, 16)(7, 19)(8, 12)(12, 25)(14, 26)(17, 28)(18, 29)(20, 30)(23, 31)(27, 32), (1, 22, 6, 9)(2, 16, 10, 5)(3, 18, 13, 29)(4, 30, 15, 20)(7, 12, 19, 25)(8, 26, 21, 14)(11, 27, 24, 32)(17, 23, 28, 31), (1, 19)(2, 13)(3, 10)(4, 17)(5, 18)(6, 7)(8, 11)(9, 12)(14, 22)(14, 26)(17, 28)(18, 29)(20, 30)(23, 31)(27, 32), (1, 12, 6, 25)(8, 28, 21, 17)(11, 14, 24, 24)(17, 23, 28, 31), (1, 19)(2, 13)(3, 10)(4, 17)(5, 18)(6, 7, 19)(8, 11)(14, 25)(14, 26)(17, 28)(18, 29)(20, 30)(23, 31)(27, 32), (1, 46, 15)(28, 10, 29)(20, 30)(23, 31)(27, 32), (1, 46, 15)(28, 10, 29)(20, 30)(23, 31)(27, 32), (1, 46, 15)(28, 10, 29)(20, 30)(23, 31)(27, 32), (1, 46, 15)(28, 10, 29)(20, 30)(23, 31)(27, 32), (1, 46, 15)(28, 10, 29)(20, 23, 20)(12, 32, 25, 31)(18, 27, 29, 32), (1, 36, 13)(27, 10, 19)(4, 24, 15, 11)(6, 12, 26)(8, 28, 11, 19)(14, 26)(17, 28)(18, 29)(20, 30)(23, 31)(27, 32), (1, 46, 15)(28, 10, 29)(20, 23, 20)(12, 32, 25, 31)(18, 27, 29, 32), (1, 36, 13)(27, 10, 19)(4, 24, 15, 11)(6, 12, 26)(8, 28, 11, 19)(14, 28)(14, 26)(17, 28)(18, 29)(20, 23, 20)(12, 32, 25, 31)(18, 27, 29, 32), (1, 36, 13)(27, 10, 19)(4, 24, 15, 11)(6, 12, 26)(18, 28, 11, 19)(14, 28)(14, 26)(17, 28)(18, 29)(20, 20)(23, 31)(27, 32), (1, 46, 15)(28, 11, 19)(14, 26)(17, 28)(18, 29)(14, 26)(17, 28)(18, 29)(20, 20)(23, 31)(27, 32), (1, 46, 15)(28, 11, 19)(14, 26)(17, 28)(18, 29)(20, 20)(13, 24)(28, 28)(18, 29)(20, 20)(13, 24)(28, 28)(18, 29)(20, 29)(28, 29$

 $P_{48} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,31,6,23)(2,32,10,27)(3,14,13,26)(4,25,15,12)(5,24,16,11)(7,20,19,30)(8,29,21,18)(9,28,22,17), (1,2)(3,19)(4,8)(5,22)(6,10)(7,13)(9,16)(11,28)(12,18)(14,30)(15,21)(17,24)(20,26)(23,27)(25,29)(31,32)]) \cong C4 \times C2$ $P_{49} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,22,6,9)(2,16,10,5)(3,18,13,29)(4,30,15,20)(7,12,19,25)(8,26,21,14)(11,27,24,32)(17,23,28,31), (1,17)(2,11)(3,8)(4,7)(5,32)(6,28)(9,31)(10,24)(12,30)(13,21)(14,29)(15,19)(16,27)(18,26)(20,25)(22,23)]) \cong C4 \times C2$ $P_{50} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,18,6,29)(2,12,10,25)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,31,21,23)(11,30,24,20)(14,17,26,28), (1,18,6,29)(2,12,10,25)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,31,21,23)(11,30,24,20)(14,17,26,28), (1,18,6,29)(2,12,10,25)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,31,21,23)(11,30,24,20)(14,17,26,28), (1,18,6,29)(2,12,10,25)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,31,21,23)(11,30,24,20)(14,17,26,28), (1,18,6,29)(2,12,10,25)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,31,21,23)(11,30,24,20)(14,17,26,28), (1,18,6,29)(2,12,10,25)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,31,21,23)(11,30,24,20)(14,17,26,28), (1,18,6,29)(2,12,10,25)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,31,21,23)(11,30,24,20)(14,17,26,28), (1,18,6,29)(2,12,10,25)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,21)(11,24)(12,25)(12,24)(12,24)(12,25)(12,24)(12,24)(12,25)(12,24)(12,24)(12,25)(12,24)(12,24)(12,24)(12,25)(12,24)(12,24)(12,24)(12,24)(12,24)(12,24)(12,24)(12,24)(12,24)(12,24)(12,24)(12,24)(12,24)(12,24)(12,24)(12,2$

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

 $P_{A3} = Group([1, 6)(2, 10)(3, 13](4, 15)(5, 16)(7, 19)(8, 21)(9, 22)(11, 24)(12, 25)(14, 26)(17, 28)(18, 29)(23, 30)(3, 3)(27, 32), (1, 14, 16, 50)(2, 10, 3)(2, 32), (1, 36, 16, 15)(3, 11, 13, 24)(5, 14, 16, 26)(2, 10, 13, 3)(4, 15)(5, 16)(7, 19)(8, 21)(9, 22)(11, 24)(12, 25)(14, 26)(17, 28)(18, 29)(23, 3)(23, 3)(17, 32), (1, 14, 16, 50)(2, 10, 13)(4, 15)(5, 16)(7, 19)(8, 21)(9, 22)(11, 24)(12, 25)(14, 26)(17, 28)(18, 29)(23, 3)(23, 3)(17, 32), (1, 14, 16, 50)(2, 10, 13)(4, 15)(5, 16)(7, 19)(8, 21)(9, 22)(11, 24)(12, 25)(14, 26)(17, 28)(18, 29)(23, 3)(23, 3)(17, 32), (1, 14, 16, 50)(2, 10, 13)(4, 15)(5, 16)(7, 19)(8, 21)(9, 22)(11, 24)(12, 25)(14, 26)(17, 28)(18, 29)(23, 3)(23, 3)(17, 32), (1, 14, 16, 50)(2, 12, 10, 13)(18, 15)(18, 18)(18, 19)(18, 18)($

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

 $N_8 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(17,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,6)(2,10)(3,13)(4,15)(5,16)(17,29)(11,24)(12,25)(14,26)(12,25)(14,26)(12,25)(12,25)(12,25)(12,25)(12,25)(12,25)(12,25)(12,25)(12,25)(12,25)(12,25$

 $N_9 = Group([(1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32),(1,2)(3,19)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32),(1,2)(3,19)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32),(1,2)(3,19)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32),(1,2)(3,19)(4,15)(5,16)(17,27)(19,29)(21,30)(24,31)(27,32),(1,2)(3,19)(4,15)(5,16)(17,27)(19,29)(21,30)(24,31)(27,32),(1,2)(3,19)(4,15)(17,29)(21,30)(24,31)(27,32),(1,2)(3,19)(4,15)(17,29)(21,30)(24,31)(27,32),(1,2)(3,19)(4,15)(17,29)(21,30)(24,31)(27,32),(1,2)(3,19)(4,15)(17,29)(21,30)(24,31)(27,32),(1,2)(3,19)(4,15)(17,29)(21,30)(24,31)(27,32),(1,2)(21,30)(27,32),(1,2)(21,30)(27,32),(1,2)(21,30)(27,32),(1,2)(21,30)(27,32),(1,2)(27,$ $N_{10} = Group([(1,14,6,26)(2,20,10,30)(3,23,13,31)(4,16,15,5)(7,27,19,32)(8,22,21,9)(11,25,24,12)(17,29,28,18),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,24)(17,29,28,18),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32),(1,24,12)(17,29,28,18),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32),(1,24,12)(17,29,28,18),(1,6)(2,10)(3,13)(4,15)(5,16)(17,28)(18,29)(20,30)(23,31)(27,32),(1,24,12)(17,29,28,18),(1,6)(2,10)(3,13)(4,15)(5,16)(17,28)(18,29)(20,30)(12,23,25,31)(18,27,29,32)]) \\ = (C2 \times Q8) : C2 \times Q8 :$ $N_{11} = Group([(1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,2)(3,19)(4,16)(17,28)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,2)(3,19)(4,16)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,16)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,16)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,16)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,16)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,16)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,16)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,16)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,16)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,16)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,16)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,16)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,18)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,18)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,18)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,18)(17,28)$ $N_{13} = Group([(1,24,6,11)(2,28,10,17)(3,4,13,15)(5,31,16,23)(7,8,19,21)(9,32,22,27)(12,14,25,26)(18,20,29,30),(1,5)(2,31)(2,32)($ $N_{14} = Group([(1,17)(2,11)(3,8)(4,7)(5,32)(6,28)(9,31)(10,24)(12,30)(13,21)(14,29)(15,19)(4,24,15,11)(5,12,16,25)(22,23), (1,6)(2,10)(3,12)(4,24)(12,25)(14,26)(17,28)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,2)(3,19)(4,24,15,11)(5,12,16,25)(22,23), (1,6)(2,10)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,2)(3,19)(4,15)(5,16)(7,19)(8,21)(17,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(11,24)(12,25)(1$ $N_{15} = Group([(1,18,6,29)(2,12,10,25)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,31,21,23)(11,30,24,20)(14,17,26,28),(1,2)(2,32)(11,30,24,20)(14,31,26,23)(20,32,30,27),(1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32)]) \\ \cong (C2 \times Q8) : C2 \times Q8) : C3 \times Q8$ $N_{16} = Group([(1,19)(2,13)(3,10)(4,17)(5,18)(6,7)(8,11)(9,12)(14,32)(15,28)(16,29)(20,31)(27,32),(1,2)(25,29)(31,32),(1,2,4)(22,25)(23,30)(26,27),(1,2)(2,25)(23,30)(26,27),(1,2)(2,25)(23,30)(26,27),(1,2)(2,25)(23,30)(26,27),(1,2)(2,25)(23,30)(26,27),(1,2)(2,25)(23,30)(26,27),(1,2)(2,25)(23,30)(26,27),(1,2)(2,25)(23,30)(26,27),(1,2)(2,25)(23,30)(26,27),(1,2)(2,25)(23,30)(26,27),(1,2)(2,25)(23,30)(26,27),(1,2)(2,25)(23,30)(26,27),(1,2)(2,25)(23,30)(26,27),(1,2)(2,25)(23,30)(26,27),(1,2)(23,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(25,29)(21,23)(24,24)(22,25)(23,27)(24,24$ $N_{17} = Group([(1,30)(2,26)(3,27)(4,9)(5,8)(6,20)(7,23)(10,14)(11,29)(12,28)(13,32)(15,22)(6,10)(7,13)(9,16)(11,28)(12,25)(14,26)(23,27)(25,29)(31,32), \\ (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), \\ (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32)]) \cong (C2 \times Q8) : C2 \times Q8) : C2 \times Q8 : C2 \times Q8$ $N_{18} = Group([(1,31,6,23)(2,32,10,27)(3,14,13,26)(4,25,15,12)(5,24,16,11)(7,20,19,30)(8,29,21,18)(9,28,22,17),(1,6)(2,10)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32)]) \\ \cong (C2 \times Q8) : C2 \times Q8) : C2 \times Q8$ $N_{19} = Group([(1,2)(3,19)(4,8)(5,22)(6,10)(7,13)(9,16)(11,28)(12,32)(13,24)$ $N_{20} = Group([(1, 8, 6, 21)(2, 4, 10, 15)(3, 28, 13, 17)(5, 30, 16, 20)(7, 24, 19, 11)(9, 26, 22, 14)(12, 27, 25, 32)(18, 23, 29, 31), (1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 18)(8, 20)(10, 22)(11, 24)(12, 27, 25, 32)(18, 23, 29, 31), (1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 18)(8, 20)(10, 22)(11, 24)(12, 27, 25, 32)(18, 23, 29, 31), (1, 6)(2, 10)(3, 13)(4, 15)(5, 16)(7, 19)(8, 21)(9, 22)(11, 24)(12, 27, 25, 32)(18, 23, 29, 31), (1, 6)(2, 10)(3, 13)(4, 15)(5, 16)(7, 19)(8, 21)(9, 22)(11, 24)(12, 27, 25, 32)(18, 23, 29, 31), (1, 6)(2, 10)(3, 13)(4, 15)(5, 16)(7, 19)(8, 21)(9, 22)(11, 24)(12, 27, 25, 32)(18, 23, 29, 31), (1, 6)(2, 10)(3, 13)(4, 15)(5, 16)(7, 19)(8, 21)(9, 22)(11, 24)(12, 27, 25, 32)(18, 23, 29, 31), (1, 6)(2, 10)(3, 13)(4, 15)(5, 16)(7, 19)(8, 21)(17, 24)(12, 25)(14, 26)(17, 27)(17, 24)(12, 27, 25, 32)(18, 23, 29, 31), (1, 6)(2, 10)(3, 13)(4, 15)(5, 16)(17, 27)(19, 29)(11, 24)(12, 27, 25, 32)(18, 23, 29, 31), (1, 6)(2, 10)(17, 24)(12, 27, 25, 32)(18, 23, 29, 31), (1, 6)(2, 10)(17, 24)(12, 27, 25, 32)(18, 23, 29, 31), (1, 6)(17, 27)(19, 29)(11, 24)(12, 27, 25, 32)(18, 23, 29, 31), (1, 6)(17, 27)(19, 29)(11, 24)(12, 27, 25, 32)(18, 23, 29, 31), (1, 6)(17, 27)(19, 29)(11, 24)(12, 27, 25, 32)(18, 23, 29, 31), (1, 6)(17, 27)(19, 29)(11, 24)(12, 27, 25, 32)(18, 29, 29, 31), (1, 6)(17, 29)(17$ $N_{22} = Group([(1,32,6,27)(2,31,10,23)(3,30,13,20)(4,29,15,18)(5,17,16,28)(7,26,19)(4,24,15,11)(5,12,16,25)(14,26)(17,28)(13,24)(15,21)(17,24)(20,26)(23,27)(25,29)(14,31,26,23)(20,32,30,27), \\ (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32)]) \\ \cong (C2 \times Q8) : C2 \times Q8) : C2 \times Q8) : C2 \times Q8$ $N_{23} = Group([(1,24,6,11)(2,28,10,17)(3,4,13,15)(5,31,16,23)(7,8,19,21)(9,32,22,27)(12,14,25,26)(18,20,29,30),(1,12,6,25)(2,18,10,29)(3,132),(1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(2,18,10,29)(3,132),(1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(2,18,10,29)(3,132),(1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(2,18,10,29)(3,132),(1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(2,18,10,29)(3,132),(1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(2,18,10,29)(3,132),(1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(2,18,10,29)(3,132),(1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(2,18,10,29)(3,132),(1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(2,18,10,29)(3,132),(1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(2,18,10,29)(3,132),(1,3,6,13)(2,13,16,23)(2,132),(1,3,6,13)(2,13,16,23)(2,132),(1,3,6,13)(2,13,16,23)(2,132),(1,3,6,13)(2,13,16,23)(2,132),(1,3,6,13)(2,13,16,23)(2,132),(1,3,6,13)(2,13,16,23)(2,132),(1,3,6,13)(2,13,16,23)(2,132),(1,3,6,13)(2,13,16,23)(2,132),(1,3,6,13)(2,13,16,23)(2,132),(1,3,16,23)(2,132),($ $N_{24} = Group([(1,2)(3,19)(4,8)(5,22)(6,10)(7,13)(9,16)(11,28)(12,32)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,3,6,13)(27,32$ $N_{27} = Group([(1, 8, 6, 21)(2, 4, 10, 15)(3, 28, 13, 17)(5, 30, 16, 20)(7, 24, 19, 11)(9, 26, 22, 14)(12, 27, 25, 32)(18, 23, 29, 31), (1, 22, 6, 9)(2, 16, 10, 5)(3, 18, 13, 29)(4, 30, 15, 20)(7, 12, 19, 25)(8, 26, 21, 14)(11, 27, 24, 32)(17, 23, 28, 31), (1, 2)(4, 10, 15)(5, 12, 16, 25)(8, 28, 21, 17)(9, 18, 22, 29)(14, 31, 26, 23)(20, 32, 30, 27)]) \\ \cong (C2 \times Q8) : C2 \times Q8$ $N_{28} = Group([(1,2)(3,19)(4,8)(5,22)(6,10)(7,13)(9,16)(11,28)(12,18)(14,30)(15,21)(17,24)(20,26)(23,27)(25,29)(14,31,26,23)(20,32,30)(12,23,25,31)(18,27,29,32)]) \\ \cong (C2 \times Q8) : C2 \times Q8) : C2 \times Q8$ $N_{30} = Group([(1,2)(3,19)(4,8)(5,22)(6,10)(7,13)(9,16)(11,28)(12,18)(14,30)(15,21)(17,24)(20,26)(23,27)(25,29)(31,32), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \\ \cong (C2 \times Q8) : C2 \times Q8) : C2 \times Q8 : C2$ F(2) = Group([(1,24,6,11)(2,28,10,17)(3,4,13,15)(5,31,16,23)(7,8,19,21)(9,32,22,27)(12,14,25,26)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,3,6,13)(27,32), (1,3,6,1 $N_{32} = Group([(1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32),(1,12,6,25)(2,18,10,29)(3,16,13,5)(4,31,15,23)(7,22,19,9)(8,32,21,27)(11,14,24,26)(17,29,22)(11,24)(12,25)(14,26)(17,29,23,25,31)(18,27,29,32),(1,12,6,25)(2,18,10,29)(2,30,12,13)(2,13,12,12,12)(2,12)(2,12)(2,12)(2,12)(2,12)(2,12)(2,12)(2,12)(2,12)(2,12)(2,12)(2,12)(2$ $N_{34} = Group([(1,19)(2,13)(3,10)(4,17)(5,18)(6,7)(8,11)(9,12)(14,32)(15,28)(16,29)(20,31)(21,24)(22,25)(23,30)(26,27),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(22,25)(23,30)(26,27),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32),(1,6)(2,10)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32)]) \\ = (C2 \times Q8) : C2 \times Q8) : C2 \times Q8) : C2 \times Q8) : C2 \times Q8) : C3 \times Q8 : C3 \times Q$ $N_{35} = Group([(1,19)(2,13)(3,10)(4,17)(5,18)(6,7)(8,11)(9,12)(14,20)(15,28)(16,29)(20,30)(23,31)(27,32), (1,2)(3,19)(4,30)(15,21)(17,24)(22,25)(23,30)(26,27), (1,22,6,9)(2,16,10,5)(3,18,13,29)(4,30,15,20)(7,12,19,25)(8,26,21,14)(11,27,24,32)(17,23,28,31), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(16,29)(20,30)(23,27)(25,29)(31,32), (1,2)(3,19)(4,30)(15,21)(17,24)(22,25)(23,30)(26,27), (1,2)(3,19)(4,30)(15,21)(17,24)(22,25)(23,30)(26,27), (1,2)(3,19)(4,30)(15,21)(17,24)(22,25)(23,30)(26,27), (1,2)(3,19)(4,30)(15,21)(17,24)(22,25)(23,30)(26,27), (1,2)(3,19)(4,30)(15,21)(17,24)(22,25)(23,30)(26,27), (1,2)(3,19)(4,30)(15,21)(17,24)(22,25)(23,30)(26,27), (1,2)(3,19)(4,30)(15,21)(17,24)(22,25)(23,30)(26,27), (1,2)(3,19)(4,30)(15,21)(17,24)(22,25)(23,30)(26,27), (1,2)(3,19)(4,30)(15,21)(17,24)(22,25)(23,30)(26,27), (1,2)(3,19)(4,30)(15,21)(17,24)(22,25)(23,30)(26,27), (1,2)(3,19)(4,30)(15,21)(17,24)(22,25)(23,30)(23,27)(25,29)(25,29)(25,$ $N_{36} = Group([(1,2)(3,19)(4,8)(5,22)(6,10)(7,13)(9,16)(11,28)(12,18)(14,30)(15,21)(17,24)(20,26)(23,27)(25,29)(31,32), (1,12,6,25)(2,18,10,29)(3,13,15,23)(7,22,19,9)(8,32,21,27)(11,14,24,26)(17,20,28,30), (1,12,6,25)(2,18,10,29)(3,13,15,23)(7,22,19,9)(8,32,21,27)(11,14,24,26)(17,20,28,30), (1,12,6,25)(2,18,10,29)(3,13,15,23)(7,22,19,9)(8,32,21,27)(11,14,24,26)(17,20,28,30), (1,12,6,25)(2,18,10,29)(3,13,15,23)(7,22,19,9)(8,32,21,27)(11,14,24,26)(17,20,28,30), (1,12,6,25)(2,18,10,29)(3,13,15,23)(7,22,19,9)(8,32,21,27)(11,14,24,26)(17,20,28,30), (1,12,6,25)(2,18,10,29)(3,13,15,23)(2,12,12)(2,12)(2,12)(2,12)(2,12)(2,12)(2,12)(2,12)(2,$

 $N_{37} = Group([(1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27),(1,4,6,15)(2,8,10,21)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \\ \cong (C2 \times Q8) : C2 \times Q8) : C2 \times Q8) : C2 \times Q8) : C2 \times Q8) : C3 \times Q8$ $N_{38} = Group([(1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27),(1,8,6,21)(2,4,10,15)(3,28,13,17)(5,30,16,20)(7,24,19,11)(9,26,22,14)(12,27,25,32)(18,23,29,31),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \\ \cong (C2 \times Q8) : C2 \times Q8) : C2 \times Q8 : C2$ $N_{39} = Group([(1,2)(3,19)(4,8)(5,22)(6,10)(7,13)(9,16)(11,28)(12,25)(14,26)(17,27)(19,29)(21,30)(23,31)(27,32), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,28)(13,25)(14,26)(17,28)(17,28)$ $N_{40} = Group([(1,19)(2,13)(3,10)(4,17)(5,18)(6,7)(8,11)(9,12)(14,28)(15,28)(16,29)(20,31)(21,24)(22,25)(23,30)(26,27), \\ (1,2)(3,19)(4,10)(5,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,2)(3,19)(4,10)(5,21)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,19)(4,10)(5,21)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,19)(4,10)(5,21)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,19)(4,10)(5,21)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,19)(4,10)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,19)(4,10)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,19)(4,10)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,19)(4,10)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,19)(4,10)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,19)(4,10)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,30)(26,27), \\ (1,2)(3,12)(17,24)(22,25)(23,24)(23$ $N_{41} = Group([(1,2)(3,19)(4,8)(5,22)(6,10)(7,13)(9,16)(11,28)(12,18)(14,20)(23,27)(25,29)(14,24)(23,22,27)(12,14,25,26)(18,29)(20,30)(23,31)(27,32), \\ (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), \\ (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), \\ (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(12$ $N_{43} = Group([(1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(24,31)(27,32),(1,5)(29,20)(21,30)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(29,20)(21,32),(1,5)(21,20)(21,22),(1,5)(21,22),(1,5)(21,22),(1,5)($ $N_{44} = Group([(1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17)(9,18,22,29)(14,26)(17,28)(12,25)(14,26)(17,24)(20,26)(23,27)(25,29)(14,21,23)(11,30,24,20)(14,21,25)(14,26)(23,27)(25,29)(14,21,23)(11,30,24,20)(14,21,25)(14,26)(17,24)(20,26)(23,27)(25,29)(21,24)(20,26)(23,27)(25,29)(25,29)(2$ $N_{45} = Group([(1,8,6,21)(2,4,10,15)(3,28,13,17)(5,30,16,20)(7,24,19,11)(9,26,22,14)(12,27,25,32)(18,23,29,31),(1,12,6,25)(2,18,10,29)(3,16,13,5)(4,31,15,23)(7,22,19,9)(8,32,21,27)(11,14,24,26)(17,20,28,30),(1,12,6,25)(2,18,10,29)(3,16,13,5)(4,31,15,23)(7,22,19,9)(8,32,21,27)(11,14,24,26)(17,20,28,30),(1,12,6,25)(2,18,10,29)(3,16,13,5)(4,31,15,23)(7,22,19,9)(8,32,21,27)(11,14,24,26)(17,20,28,30),(1,12,6,25)(2,18,10,29)(3,16,13,5)(4,31,15,23)(7,22,19,9)(8,32,21,27)(11,14,24,26)(17,20,28,30),(1,12,6,25)(2,18,10,29)(3,16,13,5)(4,15,12)(2,18,10,29)(3,16,13,13)(4,15,12,13)(4,15,12)(4$ $N_{46} = Group([(1,8,6,21)(2,4,10,15)(3,28,13,17)(5,30,16,20)(7,24,19,11)(9,26,22,14)(12,27,25,32)(18,29,29)(14,31,26,23)(21,31)(9,22,14)(12,27,25,32)(18,29,29)(14,31,26,23)(21,31)(9,22,14)(12,27,25,32)(18,29,29)(14,31,26,23)(21,31)(17,24)(22,29)(14,31,26,23)(21,31)(17,24)(22,29)(14,31,26,23)(21,31)(17,24)(22,29)(14,31,26,23)(21,31)(17,24)(22,29)(14,31,26,23)(21,31)(21$ $N_{47} = Group([(1,19)(2,13)(3,10)(4,17)(5,18)(6,7)(2,13)(3,10)(4,17)(5,18)(6,7)(4,9)(2,25)(13,32)(15,22)(16,21)(17,28)(13,24)(22,25)(23,30)(26,27), \\ (1,20)(1,24)(1,24)(1,25)(14,26)(17,24)(12,25)(14,26)(17,24)$ $N_{48} = Group([(1,2)(3,19)(4,8)(5,22)(6,10)(7,13)(9,16)(11,28)(12,32)(11,24)(12,25)(14,26)(17,28)(13,24)(13,26)(23,27)(25,29)(31,32)(13,24)(13,26)(23,27)(25,29)(14,31,26)(23,27)(25,29)(14,31,26)(23,27)(25,29)(14,31,26)(23,27)(25,29)(14,31,26)(23,27)(25,29)(14,31,26)(23,27)(25,29)(14,31,26)(23,27)(25,29)(14,31,26)(23,27)(25,29)(14,31,26)(23,27)(25,29)(14,31,26)(23,27)(25,29)(14,31,26)(23,27)(25,29)(14,31,26)(23,27)(25,29)(25,29)(2$ $N_{49} = Group([(1,17)(2,11)(3,8)(4,7)(5,32)(6,28)(9,31)(10,24)(12,25)(4,26)(20,23)(13,24)(12,25)(4,26)(20,23)(13,24)(13,26)(13,24)(13,26)(13,24)(13,26)(13,24)(13,26)(13,24)(13,26)(13,24)(13,26)(13,24)(13,26)(13,24)(13,26)(13,24)(13,26)(13,24)(13,26)(13,24)(13,26)(13,24)(13,26)(13,24)(13,26)(13,24)(1$ $N_{50} = Group([(1,24,6,11)(2,28,10,17)(3,4,13,15)(5,31,16,23)(7,8,19,21)(9,32,27)(12,14,25,26)(18,20,27)(25,29)(14,31,26,23)(27,32)(17,32)($ $N_{51} = Group([(1,17)(2,11)(3,8)(4,7)(5,32)(6,28)(9,31)(10,24)(12,30)(13,21)(14,29)(15,19)(4,24,15,11)(5,12,16,25)(2,23)(1,12,6,25)(2,13,10)(13,21)(14,29)(15,19)(14,24)(12,25)(14,26)(17,20,28,30), \\ N_{51} = Group([(1,17)(2,11)(3,8)(4,7)(5,32)(6,28)(9,31)(10,24)(12,30)(13,21)(14,29)(15,19)(14,24)(12,25)(14,26)(17,20,28,30), \\ N_{51} = Group([(1,17)(2,11)(3,8)(4,7)(5,32)(6,28)(9,31)(10,24)(12,30)(13,21)(14,29)(15,19)(14,24)(12,25)(14,26)(17,24)(12,25)(14,24)(12,25)$ $N_{52} = Group([(1,17)(2,11)(3,8)(4,7)(5,32)(6,28)(9,31)(10,24)(12,30)(13,21)(14,29)(15,19)(15,19)(16,27)(18,26)(20,23)(13,21)(14,29)(15,19)(16,27)(18,26)(20,23)(13,21)(14,29)(15,19)(16,27)(18,26)(20,23)(11,24)(12,25)(14,26)(17,24)(17,24)$ $N_{53} = Group([(1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(4,20)(13,21)(17,24)(20,26)(23,27)(25,29)(14,31,26)(25,29)(2$ $N_{54} = Group([(1,19)(2,13)(3,10)(4,17)(5,18)(6,7)(2,10)(3,13)(4,15)(5,18)(6,7)(2,10)(3,10)(4,17)(5,18)(6,7)(2,10)(3,10)(4,17)(5,18)(6,10)(3,10)(4,17)(5,18)(6,10)(3,10)(4,17)(5,18)(6,10)(1,128)(1,13)(1$ $N_{55} = Group([(1,24,6,11)(2,28,10,17)(3,4,13,15)(5,31,16,23)(7,8,19,21)(9,22)(11,24)(12,25)(14,26)(17,24)(20,26)(23,27)(25,29)(14,31,26,23)(27,32)(17,24,25)(14,26)(17,24)(20,26)(23,27)(25,29)(14,31,26,23)(27,32)(17,24,25)(14,26)(17,24)(20,26)(23,27)(25,29)(14,31,26,23)(27,32)(17,24,25)(14,26)(17,24$ $N_{56} = Group([(1,17)(2,11)(3,8)(4,7)(5,32)(6,28)(9,31)(10,24)(12,25)(14,26)(17,27)(19,29)(21,30)(23,31)(27,32), \\ (1,2)(3,19)(4,30)(2,31)(2,32)(1,23)(13,25)(15,26)(17,27)(19,29)(21,30)(23,31)(27,32), \\ (1,2)(3,19)(4,30)(2,31)(2,32)(1,23)(13,25)(15,26)(17,27)(19,29)(21,30)(23,31)(27,32), \\ (1,2)(3,19)(4,31)(2,32)(13,25)(15,26)(17,27)(19,29)(21,30)(23,31)(27,32), \\ (1,2)(3,19)(4,31)(2,32)(13,23)($ $N_{57} = Group([(1,19)(2,13)(3,10)(4,17)(5,18)(6,7)(2,13)(3,10)(4,17)(5,18)(6,7)(2,13)(3,10)(4,17)(5,18)(6,7)(2,13)(3,10)(4,17)(5,18)(6,7)(2,13)(3,10)(4,17)(5,18)(6,17)(2,13)(3,10)(4,17)(5,18)(6,17)(2,13)(3,10)(4,17)(5,18)(6,17)(2,13)(3,10)(4,17)(5,18)(6,17)(2,18)(4,1$ $N_{58} = Group([(1,2)(3,19)(4,8)(5,22)(6,10)(7,13)(9,16)(11,28)(12,31)(13,24)(5,14,16,26)(7,17,19,28)(9,22,30)(12,23,25,31)(18,27,29,32), \\ (1,3,6,13)(2,7,10,19)(4,24,15,11)(5,12,16,25)(8,28,21,17)(9,18,22,29)(14,31,26,23)(20,32,30,27), \\ (1,4,6,15)(2,8,10,21)(14,20$ $N_{59} = Group([(1,2)(3,19)(4,8)(5,22)(6,10)(7,13)(9,16)(17,28)(13,24)$

 $N_{63} = Group([(1, 2], 9)(4, 8)(5, 22)(6, 10)(7, 13)(9, 16)(11, 28)(2, 28)(1, 1, 14, 26)(17, 29)(8, 32)(2, 13)(1, 14, 15)(15, 16)(7, 19)(8, 22)(1, 14)(12, 26)(2, 29)(3, 13)(3, 13)(3, 15)(3, 15)(6, 16)(7, 19)(8, 21)(2, 14, 26)(17, 29)(8, 29)(2, 3)(2, 32)(3, 13)(3, 13)(3, 13)(3, 15)(3, 16)(3, 15)(3, 16)(3, 1$