Ordinary character table of $G \cong (C4 \times S3) : C2$:

		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Trivial source character table of $G \cong (C4 \times S3)$: C2 at $p = 2$:			
Normalisers N_i	N_1 N_2	$ar{V_4} egin{array}{ c c c c c c c c c c c c c c c c c c c$	
p-subgroups of G up to conjugacy in G	$\begin{array}{c cccc} P_1 & P_2 \\ \hline 1 & 2 & 1 & 2 \\ \end{array}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
Representatives $n_j \in N_i$		$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
$\begin{bmatrix} 1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 2 \cdot \chi_{13} + 2 \cdot \chi_{14} + 0 \cdot \chi_{15} \\ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 2 \cdot \chi_{15} \\ 1 \end{bmatrix}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{c c c c c c c c c c c c c c c c c c c $	
$\frac{1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}{1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}$			
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$			
$\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15}}{1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15}}$		$egin{array}{c c c c c c c c c c c c c c c c c c c $	
$\frac{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} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15}}{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} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15}}\right $	8 8 0 0	$egin{array}{c c c c c c c c c c c c c c c c c c c $	
$\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}$	4 4 4 4	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$\begin{vmatrix} 1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} \\ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_9 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} \end{vmatrix}$		$egin{array}{c c c c c c c c c c c c c c c c c c c $	
$\frac{1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}{1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}$	4 4 4 4	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	4 4 4 4	$egin{array}{c c c c c c c c c c c c c c c c c c c $	
$\frac{1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}{1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_2 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{c c c c c c c c c c c c c c c c c c c $	
$\frac{1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}$	4 4 4 4	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 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} $	2 2 2 2	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
$\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}{1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_{10} + 0 \cdot \chi_{10$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{c c c c c c c c c c c c c c c c c c c $	
$\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}\right)$		$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} 2 & 2 & 2 & 2 \\ 2 & -1 & 2 & -1 \end{bmatrix}$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 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} $	2 2 2 2	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
$\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}}{1 \cdot \chi_5 + 0 \cdot \chi$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{c c c c c c c c c c c c c c c c c c c $	
$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} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} $ $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} $ $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} $ $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} $ $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} $	1 1 1 1	$egin{array}{c c c c c c c c c c c c c c c c c c c $	
$P_7 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)\\ P_8 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)\\ P_9 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)\\ P_{10} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)\\ P_{11} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)\\ P_{12} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)\\ P_{13} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)\\ P_{13} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)\\ P_{14} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)\\ P_{15} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,25)(12,29)\\ P_{15} = Group([(1,5)(2,9)$	8)(27, 45)(29, 37)(3 0)(24, 29)(26, 45)(3 7)(24, 26)(27, 37)(3 9)(28, 41)(30, 42)(3 9)(28, 41)(30, 42)(3 9)(28, 41)(30, 42)(3 39)(28, 41)(30, 42)(3	$(33,47)(34,41)(39,44)(40,43)])\cong C2$ $(23,43)(33,41)(34,40)(35,39)])\cong C2$	
$P_{15} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,38)$	39)(28, 41)(30, 42)(39)(38, 41)(30, 42)(39)(38, 41)(30, 42)(39)(38, 41)(30, 42)(39)(38, 41)(30, 42)(39)(38, 41)(30, 42)(39)(38, 41)(30, 42)(39)(38, 41)(30, 42)(39)(38, 41)(39, 42)(39)(38, 41)(39, 42)(39)(38, 41)(39, 42)(39)(38, 41)(39, 42)(39)(38, 41)(39, 42)(38, 41)(39, 42)(38, 41)(39, 42)(38, 41)(39, 42)(38, 41)(39, 42)(38, 41)(39, 42)(38, 41)(39, 42)(38, 41)(39, 42)(38, 41)(39, 42)(38, 41)(39	$ \begin{array}{l} (35,45)(37,46)(40,47)(44,48), (1,25,51)(2,32,9,18)(3,4,12,14)(6,39,16,26)(7,8,19,21)(11,43,23,33)(13,15,27,29)(17,47,31,40)(20,22,34,36)(24,48,38,44)(28,30,41,42)(35,37,45,46), (1,2)(3,7)(4,21)(5,9)(6,24)(8,14)(10,17)(11,32)(12,19)(13,35)(15,46)(16,38)(18,25)(20,28)(22,42)(23,31)(26,48)(27,45)(29,37)(30,36)(33,47)(34,41)(39,44)(49,43)) \cong D8\\ (35,45)(37,46)(40,47)(44,48), (1,3,5,12)(2,7,9,19)(4,25,14,11)(6,13,16,27)(8,32,21,18)(10,20,23,34)(15,39,29,26)(17,28,31,41)(24,38,36,33)(24,37,38,46)(28,40,41,47)(35,44,48,48), (1,3,5,12)(24,31,36,33)(24,37,38,46)(28,40,41)(39,44)(49,48), (1,3,5,12)(24,31,36,33)(24,37,38,46)(28,40,41)(19,29,21)(19,29,29,49)(17,28,31,41)(24,39,38,45)(30,47,42,40)(37,48,46,44)) \cong D8\\ (35,45)(37,46)(40,47)(44,48), (1,4,5,14)(2,8,9,21)(3,11,12,25)(6,15,16,29)(7,18,19,21)(10,43,23,33)(13,15,27,29)(17,47,31,40)(20,23,34)(15,39,29,26)(17,28,31,41)(24,38,36,33)(24,37,38,46)(28,40,41,47)(35,44,45,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49,14,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)(27,49)(49,18,48), (1,3,5,12)($	
$N_2 = Group([(1,2)(3,7)(4,21)(5,9)(6,24)(8,14)(10,17)(11,32)(12,19)(13,35)(15,46)(16,38)(18,25)(20,28)(22,42)(23,31)(26,48)\\ N_3 = Group([(1,2)(3,7)(4,21)(5,9)(6,24)(8,14)(10,17)(11,32)(12,19)(13,35)(15,46)(16,38)(18,25)(20,28)(22,42)(23,31)(26,48)\\ N_4 = Group([(1,21)(2,14)(3,32)(4,9)(5,8)(6,46)(7,25)(10,42)(11,19)(12,18)(13,48)(15,38)(16,37)(17,36)(20,47)(22,31)(23,30)\\ N_5 = Group([(1,18)(2,11)(3,21)(4,19)(5,32)(6,44)(7,14)(8,12)(9,25)(10,40)(13,46)(15,45)(16,48)(17,33)(20,42)(22,41)(23,47)\\ N_6 = Group([(1,4,5,14)(2,8,9,21)(3,11,12,25)(6,15,16,29)(7,18,19,32)(10,22,23,36)(13,26,27,39)(17,30,31,42)(20,33,34,43)(16,37)(17,30,31,42)(20,33,34,43)(16,37)(17,30,31,42)(20,33,34,43)(16,37)(17,30,31,42)(20,33,34,43)(16,37)(17,30,31,42)(17,$	(8)(27,45)(29,37)((8)(27,45)(29,37)((8)(24,29)(26,45)((47)(24,26)(27,37)((43)(24,37,38,46)(33,47)(34,41)(39,44)(40,43),(1,3,5,12)(2,7,9,19)(4,25,14,11)(6,13,16,27)(8,32,21,18)(10,20,33,34,43)(24,37,38,46)(28,40,41,47)(35,44,45,48),(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(6,15,16,29)(7,18,19,32)(10,22,33,6)(13,26,27,39)(17,30,31,42)(20,33,34,43)(24,37,38,46)(28,40,41,47)(35,44,45,48),(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(6,15,16,29)(7,18,19,32)(10,22,33,6)(13,26,27,39)(17,30,31,42)(20,33,34,43)(24,37,38,46)(28,40,41,47)(35,44,45,48),(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(6,15,16,29)(7,18,19,32)(10,22,33,6)(13,26,27,39)(17,30,31,42)(20,33,34,43)(24,37,38,46)(28,40,41,47)(35,44,45,48),(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(6,15,16,29)(7,18,19,32)(10,22,33,34)(15,39,29,26)(17,28,31,41)(22,33,34)(15,39,29,26)(17,28,31,41)(22,33,34)(15,39,29,26)(17,28,31,41)(22,33,34)(15,39,29,26)(17,28,31,41)(22,33,34)(15,39,29,26)(17,28,31,41)(22,33,34)(13,34,34)(24,37,38,46)(28,40,41,47)(35,44,45,48),(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(6,15,16,29)(7,18,19,32)(10,22,33,34)(13,34,43)(24,37,38,46)(28,40,41,47)(35,44,45,48),(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(6,15,16,29)(7,18,19,32)(10,23,34)(13,34,43)(24,37,38,46)(28,40,41,47)(35,44,45,48),(1,5)(2,9)(3,14)(4,49,34,45,48),(1,5)(2,9)(3,14)(4,49,34,45,48),(1,5)(2,9)(3,14)(4,49,34,45,48),(1,5)(2,9)(3,14)(4,49,34,45,48),(1,5)(2,9)(3,14)(4,49,44,48),(1,49,44,48),(1,49,44,49,44,48),(1,49,44,49,48),	$\cong (C4 \times S3) : C2$ $\cong (C4 \times S3) : C2$
$N_8 = Group([(1,25,5,11)(2,32,9,18)(3,4,12,14)(6,39,16,26)(7,8,19,21)(10,43,23,33)(13,15,27,29)(17,47,31,40)(20,22,34,36)(16,2$	36)(24, 48, 38, 44)(28)(27, 45)(29, 37)(30)(24, 29)(26, 45)	2, 40)(37, 48, 46, 44), (1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 19)(8, 21)(10, 23)(11, 25)(6, 15, 16, 29)(7, 18, 19, 32)(10, 22, 33, 6)(13, 26, 27, 39)(17, 30, 34)(23, 34)(24, 37, 38, 46)(28, 40, 41, 47)(35, 44, 45, 8), (1, 5, 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)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 34, 45)(21, 36, 46)(25, 39, 47)(32, 43, 48)(19, 44, 48)	

 $N_{11} = Group([(1,7,5,19)(2,3,9,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,42)(23,31)(26,48)(27,45)(29,37)(30,34,42)(23,31)(26,48)(27,45)(29,37)(30,34,42)(23,31)(26,48)(27,45)(29,37)(30,34,42)(23,31)(26,48)(27,45)(29,37)(30,34,42)(29,34)(30,34,42)(30,34$

 $N_{18} = Group([(1,7,5,19)(2,3,9,12)(4,18,14,32)(6,35,16,45)(2,40,36,47)(26,46,39,37)(30,34,42)(20,34,42)(23,31)(26,48)(27,45)(29,37)(30,36,47)(26,46,39,37)(30,36)(33,47)(34,41)(39,44)(40,43)] \cong (C4 \times C2) : C2 = (C4 \times C2) : C$

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

 $N_{12} = Group([(1,18)(2,11)(3,21)(4,19)(5,32)(4,19)(5,32)(4,19)(5,32)(4,19)(5,32)(2,34)(22,34)(23,31)(24,48)(27,45)(29,37)(30,34)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,34)(23,31)(24,38)(24$

 $N_{17} = Group([(1,21)(2,14)(3,32)(4,9)(5,8)(6,46)(7,25)(10,42)(11,19)(12,18)(13,48)(15,38)(16,37)(17,36)(20,47)(22,31)(23,30)(24,29)(26,45)(27,44)(28,43)(33,41)(34,40)(35,39)(15,39)$

 $N_{19} = Group([(1,21)(2,14)(3,32)(4,9)(5,8)(6,46)(7,25)(10,42)(13,32)(4,9)(5,8)(6,46)(7,25)(10,42)(13,32)(4,9)(2,34)(23,31)(24,42)(24,42)(24,42)(24,42)(24,42)(24,42)(24,42)(24,42)(24,42)(24,42)(24,42)(24,42)(24,42)(24,42)(24,42)(24,42)(2$

 $N_{16} = Group([(1,3,5,12)(2,7,9,19)(4,25,14,11)(6,13,14,25)(2,3,34)(24,35,34,41)(22,43,36,33)(24,35,34,41)(22,43,36,34)(24,37,38,46)(23,43)(35,45)(37,46)(40,47)(44,48), (1,2)(3,7)(4,21)(5,9)(3,24,14)(2,3,34,41)(22,33,34,41)(22,33,34,41)(22,33,34,41)(22,33,34,41)(22,33,34,41)(22,33,34,41)(22,33,34,41)(22,33,34,41)(23,34,41$