

The group G is isomorphic to the group labelled by [12, 4] in the Small Groups library.

Ordinary character table of $G \cong \text{D12}$:

	1a	2a	3a	6a	2b	2c
χ_1	1	1	1	1	1	1
χ_2	1	1	1	1	-1	-1
χ_3	1	-1	1	-1	1	-1
χ_4	1	-1	1	-1	-1	1
χ_5	2	2	-1	-1	0	0
χ_6	2	-2	-1	1	0	0

Trivial source character table of $G \cong \text{D12}$ at $p = 2$:

Normalisers N_i	N_1		N_2		N_3	N_4	N_5
p -subgroups of G up to conjugacy in G	P_1		P_2		P_3	P_4	P_5
Representatives $n_j \in N_i$	1a	3a	1a	3a	1a	1a	1a
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	4	4	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6$	4	-2	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	2	2	2	2	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6$	2	-1	2	-1	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	2	2	0	0	2	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	2	2	0	0	0	2	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	1	1	1	1	1	1	1

$$P_1 = \text{Group}([()]) \cong 1$$

$$P_2 = \text{Group}([(1, 3)(2, 5)(4, 7)(6, 9)(8, 11)(10, 12)]) \cong \text{C2}$$

$$P_3 = \text{Group}([(1, 2)(3, 5)(4, 10)(6, 8)(7, 12)(9, 11)]) \cong \text{C2}$$

$$P_4 = \text{Group}([(1, 5)(2, 3)(4, 12)(6, 11)(7, 10)(8, 9)]) \cong \text{C2}$$

$$P_5 = \text{Group}([(1, 3)(2, 5)(4, 7)(6, 9)(8, 11)(10, 12), (1, 2)(3, 5)(4, 10)(6, 8)(7, 12)(9, 11)]) \cong \text{C2} \times \text{C2}$$

$$N_1 = \text{Group}([(1, 2)(3, 5)(4, 10)(6, 8)(7, 12)(9, 11), (1, 3)(2, 5)(4, 7)(6, 9)(8, 11)(10, 12), (1, 4, 8)(2, 6, 10)(3, 7, 11)(5, 9, 12)]) \cong \text{D12}$$

$$N_2 = \text{Group}([(1, 2)(3, 5)(4, 10)(6, 8)(7, 12)(9, 11), (1, 3)(2, 5)(4, 7)(6, 9)(8, 11)(10, 12), (1, 4, 8)(2, 6, 10)(3, 7, 11)(5, 9, 12)]) \cong \text{D12}$$

$$N_3 = \text{Group}([(1, 2)(3, 5)(4, 10)(6, 8)(7, 12)(9, 11), (1, 3)(2, 5)(4, 7)(6, 9)(8, 11)(10, 12)]) \cong \text{C2} \times \text{C2}$$

$$N_4 = \text{Group}([(1, 5)(2, 3)(4, 12)(6, 11)(7, 10)(8, 9), (1, 2)(3, 5)(4, 10)(6, 8)(7, 12)(9, 11), (1, 3)(2, 5)(4, 7)(6, 9)(8, 11)(10, 12)]) \cong \text{C2} \times \text{C2}$$

$$N_5 = \text{Group}([(1, 2)(3, 5)(4, 10)(6, 8)(7, 12)(9, 11), (1, 3)(2, 5)(4, 7)(6, 9)(8, 11)(10, 12)]) \cong \text{C2} \times \text{C2}$$