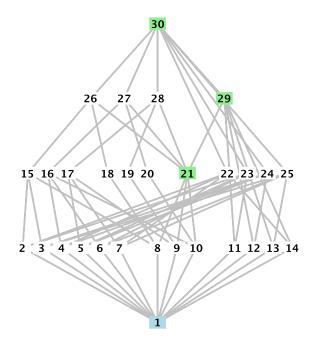
with(GroupTheory)

[<| >, AbelianInvariants, AllPerfectGroups, AllSmallGroups, AllTransitiveGroups, Alt, AlternatingGroup, AreConjugate, AreIsomorphic, BabyMonster, CayleyTable, Cayley Table Group, Center, Centraliser, Centralizer, Centre, Conjugacy Class, ConjugacyClasses, Conjugator, ConwayGroup, Core, CustomGroup, CycleIndexPolynomial, CyclicGroup, Degree, DerivedLength, DerivedSeries, DerivedSubgroup, DicyclicGroup, DihedralGroup, DirectProduct, DrawCayleyTable, DrawSubgroupLattice, Elementary Group, Elements, Embedding, Exceptional Group, FPGroup, Factor, Fischer Group, Fitting Subgroup, Frattini Subgroup, GL, Galois Group, General Linear Group, GeneralOrthogonalGroup, GeneralUnitaryGroup, Generators, GroupOrder, HaradaNortonGroup, HeldGroup, HigmanSimsGroup, Hypercenter, Hypercentre, IdentifySmallGroup, Index, Intersection, IsAbelian, IsAlternating, IsCommutative, IsElementary, IsFinite, IsNilpotent, IsNormal, IsPerfect, IsPrimitive, IsRegular, IsSimple, IsSoluble, IsSolvable, IsSubgroup, IsSymmetric, IsTransitive, JankoGroup, Labels, LeftCoset, LeftCosets, LowerCentralSeries, LyonsGroup, MathieuGroup, McLaughlinGroup, MetacyclicGroup, Monster, NilpotencyClass, NilpotentResidual, NonRedundantGenerators, NormalClosure, Normaliser, NormaliserSubgroup, NormalizerSubgroup, NumGroups, NumPerfectGroups, NumTransitiveGroups, ONanGroup, Operations, Orbit, Orbits, Orthogonal Group, PCore, PGL, PGU, PSL, PSU, PSp, Perfect Group, PermApply, PermCommutator, PermConjugate, PermCycleType, PermDegree, PermFixed, PermInverse, PermLeftQuotient, PermOrder, PermParity, PermPower, PermProduct, PermRightQuotient, PermSupport, PermutationGroup, PresentationComplexity, ProjectiveGeneralLinearGroup, ProjectiveGeneralUnitaryGroup, ProjectiveSpecialLinearGroup, ProjectiveSpecialUnitaryGroup, ProjectiveSymplecticGroup, QuaternionGroup, RandomElement, Relators, RightCoset, RightCosets, RubiksCubeGroup, RudvalisGroup, SL, Simplify, SmallGroup, SolubleResidual, SolvableResidual, SpecialLinearGroup, SpecialOrthogonalGroup, SpecialUnitaryGroup, Stabiliser, Stabilizer, Subgroup, SubgroupLattice, SubgroupMembership, Supergroup, SuzukiGroup, SylowSubgroup, Symm, Symmetric Group, Symplectic Group, Thompson Group, Tietze, Tits Group, Transitive Group, *TrivialGroup*, *UpperCentralSeries*]

G := SymmetricGroup(4)

 S_4 (2)

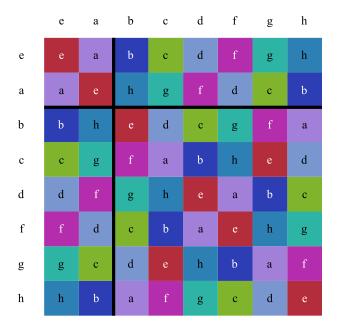
DrawSubgroupLattice(*G*)



$$H\coloneqq DihedralGroup(4)$$

$$\mathsf{D}_{\!4} \tag{3}$$

$$DrawCayleyTable(H)$$



GroupOrder(G), GroupOrder(H)

$$24, 8$$

$$U := DirectProduct(G, H)$$

$$\mathbf{S}_{4} \times \mathbf{D}_{4}$$

$$V := DirectProduct(H, G)$$

$$\mathbf{D}_{4} \times \mathbf{S}_{4}$$

$$AreIsomorphic(U, V)$$

$$true$$

$$GroupOrder(U) = GroupOrder(G) GroupOrder(H)$$

$$(5)$$

(8)

192 = 192

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72)(17,79)(18,42)(19,43)(20,44)(21,39)(22,40)(23,41)(24,31)(25,45)(28,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,44)(21,
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(132)(53, 121)(54, 103)(55, 104)(56, 101)(57, 102)(58, 62)(60, 137)(61, 138)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 102)(63, 1
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37)(28,73)(29,74)(30,43)(31,75)(32,76)(33,40)(34,45)(36,99)(38,109)(39,
101) (41, 111) (42, 103) (44, 113) (46, 114) (47, 115) (48, 116) (50, 133) (53, 65) (55,
(67)(57,69)(58,152)(59,132)(60,134)(61,151)(62,167)(63,135)(77,90)(78,
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