G:=Sym(12);

H3333:=sub<G|(1,2),(1,2,3),(4,5),(4,5,6),(7,8),(7,8,9),(10,11),(10,11,12)>;

N3333:=Normalizer(G,H3333);

H444:=sub<G|(1,2),(1,2,3,4),(5,6),(5,6,7,8),(9,10),(9,10,11,12)>;

N444:=Normalizer(G,H444);

P3333:=PermutationCharacter(G,H3333);

P444:=PermutationCharacter(G,H444);

XG:=CharacterTable(G);

XG;

Decomposition(XG,P3333);

Decomposition(XG,P444);

Decomposition(XG,P3333-P444);

G:=Sym(15);

H555:=sub<G|(1,2),(1,2,3,4,5),(6,7),(6,7,8,9,10),(11,12),(11,12,13,14,15)>;

H33333:=sub<G|(1,2),(1,2,3),(4,5),(4,5,6),(7,8),(7,8,9),(10,11),(10,11,12),(13,14),(13,14,15)>;

N555:=Normalizer(G,H555);

N33333:=Normalizer(G,H33333);

P555:=PermutationCharacter(G,H555);

P33333:=PermutationCharacter(G,H33333);

XG:=CharacterTable(G);

XG;

Decomposition(XG,P33333);

Decomposition(XG,P555);

Decomposition(XG,P33333-P555);