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Title: On conjugation in some transformation and Brauer-type semigroups

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We give, in terms of (generalized) cyclic types, a criterion for two elements of $\mathcal{T}_n$, $\mathcal{PT}_n$, $\mathcal{IS}(\mathbb{N})$, $\mathfrak{B}_n$, $\mathcal{PB}_n$ and $\mathfrak{C}_n$ to be conjugate with respect to the conjugation defined as the transitive closure of the $xy \sim yx$ relation.

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