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Bijections - Marvelous, Mysterious, and Missing

An elegant way to show two sets are equinumerous is to exhibit an explicit bijection between their elements. Such a bijection should, ideally, preserve important statistics on the objects. In this talk, we discuss such elegant bijections involving permutations, Catalan objects, plane partitions, and alternating sign matrices and also discuss equinumerous sets for which no such bijection is known.