Let π and λ be two set partitions with the same number of blocks. Assume π is a partition of [n]. For any integer $l, m \ge 0$, let $\mathcal{T}(\pi, l)$ be the set of partitions of [n + l] whose restrictions to the last n elements are isomorphic to π , and $\mathcal{T}(\pi, l, m)$ the subset of $\mathcal{T}(\pi, l)$ consisting of those partitions with exactly m blocks. Similarly define $\mathcal{T}(\lambda, l)$ and $\mathcal{T}(\lambda, l, m)$. We prove that if the statistic cr (ne), the number of crossings (nestings) of two edges, coincides on the sets $\mathcal{T}(\pi, l)$ and $\mathcal{T}(\lambda, l)$ for l = 0, 1, then it coincides on $\mathcal{T}(\pi, l, m)$ and $\mathcal{T}(\lambda, l, m)$ for all $l, m \ge 0$. These results extend the ones obtained by Klazar on the distribution of crossings and nestings for matchings.

CATHY YAN, Department of Mathematics, Texas A&M University, College Station, TX 77843-3368 *Crossings and nestings of two edges in set partitions*