RECURRENCE RELATIONS FOR ORDER STATISTICS FROM *n* INDEPENDENT AND NON-IDENTICALLY DISTRIBUTED RANDOM VARIABLES

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Abstract. Some well-known recurrence relations for order statistics in the i.i.d. case are generalized to the case when the variables are independent and non-identically distributed. These results could be employed in order to reduce the amount of direct computations involved in evaluating the moments of order statistics from an outlier model.

Key words and phrases: Order statistics, recurrence relation, single moments, product moments, permanent, outliers.