

ON SOME ALTERNATIVE CHARACTERIZATIONS  
OF RIORDAN ARRAYS

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ABSTRACT. We give several new characterizations of Riordan Arrays, the most important of which is: if  $\{d_{n,k}\}_{n,k \in \mathbf{N}}$  is a lower triangular array whose generic element  $d_{n,k}$  linearly depends on the elements in a well-defined though large area of the array, then  $\{d_{n,k}\}_{n,k \in \mathbf{N}}$  is Riordan. We also provide some applications of these characterizations to the lattice path theory.

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