

1154-05-1344      **Orli Herscovici\*** ([orli.herscovici@gmail.com](mailto:orli.herscovici@gmail.com)). *Generalized permutations*. Preliminary report. The Eulerian polynomials are closely related to permutations. In 1954 Carlitz defined a generalization,  $q$ -Eulerian polynomials. The connection between these polynomials and permutations was only discovered about 20 years later. Another generalization of the Eulerian polynomials, the so-called degenerate Eulerian polynomials, was proposed by Carlitz in 1956. In this work we will define a new class of generalized permutations and demonstrate a relation between them and the degenerate Eulerian polynomials. (Received September 15, 2019)