Zbl 186.04201
Dénes, József; Erdős, Pál; Turán, Pál
On some statistical properties of the alternating group of degree n (In English)
Enseign. Math., II. Ser. 15, 89-99 (1969). [0013-8584]

In a series of papers two of the authors were developing a statistical theory of the symmetric groups [see *P.Erdős* and *P.Turán*, Wahrscheinlichkeitstheorie verw. Gebiete 4, 175-186 (1965; this Zbl 137.25602); Acta math. Acad. Sci. Hungar. 18, 151-163, 309-320 (1967; Zbl 189.31302, Zbl 235.20003)].

In this paper applying the results in the above papers the authors determinethe nmber of the conjugacy-classes in the alternating group A_n, the number of elements of A_n whose order is less or equal to a certain limit, and the number of commuting pairs of elements in A_n.

Classification:
20-99 Group theory and generalizations