Articles of (and about)

Erdős, Paul

Some old and new problems in various branches of combinatorics. (In English) Proc. 10th southeast. Conf. Combinatorics, graph theory and computing, Boca Raton 1979, Vol. I, Congr. Numerantium 23, 19-37 (1979).

[For the entire collection see Zbl 418.00002.]

The author begins by listing eighteen earlier papers of his consisting mainly of open problems in combinatorial mathematics. Then he gives a progress report on some of his favorite problems and states a few recent problems. Finally, he gives a proof of the following result. Let A(m;k) denote the least common multiple of $m+1,\ldots,m+k$, and let m_k be the smallest integer for which $A(m_k; k) > A(m_k + k; k)$; then $m_k(k \to \infty \text{ as } k \to \infty$.

 $J.\,W.Moon$

Classification:

05C35 Extremal problems (graph theory)

00A07 Problem books

05B99 Designs and configurations

05C15 Chromatic theory of graphs and maps

11A99 Elementary number theory

Keywords:

extremal problems; random graphs; chromatic graphs