

Zbl 368.10003

Erdős, Paul

Problèmes extrémaux et combinatoires en théorie des nombres (rédigé par Jean-Louis Nicolas).

Extremal problems and combinatorics in number theory (In French)

Sémin. Delange-Pisot-Poitou, 17e Année 1975/76, Théor. des Nombres, Groupe d'Étude; Fasc. 2, Exposé G7, 5 p. (1977).

[For the entire collection see Zbl 345.00007.]

Most of the problems posed in this French paper also appear in the collection discussed in the previous review. One problem not in the above collection is the following. Let $1 \leq a_1 < a_2 < \dots < a_k \leq n$ be a sequence of k integers in which one cannot find r numbers a_i which are pairwise relatively prime. Then one obtains the largest possible value of k by considering all numbers which have at least one prime factor $\leq p_{r-1}$, where $2, 3, \dots, p_{r-1}$ are the first $r - 1$ prime numbers. The case $r = 2$ is well known.

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Classification:

11-02 Research monographs (number theory)

11B99 Sequences and sets

00A07 Problem books