

Zbl 615.10001

Erdős, Paul

Some problems on number theory. (In English)

Combinatorics, graph theory, and computing, Proc. 17th Southeast. Conf., Boca Raton/Fl. 1986, Congr. Numerantium 54, 225-244 (1986).

[For the entire collection see Zbl 608.00004.]

From the text: "In this little note I discuss mainly problems on prime numbers. Some of these have occupied me for a long time, but I mention also some new questions. The quality of the problems considered will be uneven; some are mere exercises, some certainly serious problems."

It should be added that this paper contains quite a few problems, many with comments, sketches of proofs, references, etc. The author is one of the best known problem posers in number theory, whose problems have inspired a great deal of research. Some of the problems carry money prizes. The reviewer highly recommends this article to anyone interested in the subject.

A.Ivić

Classification:

11-02 Research monographs (number theory)

11A41 Elementary prime number theory

11N05 Distribution of primes

11N37 Asymptotic results on arithmetic functions

00A07 Problem books

Keywords:

problem collection; prime numbers; squarefree numbers; complete sequences; k-tuple conjecture; divisor function