
Zbl 715.11014

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Reducible sums and splittable sets. (In English)

J. Number Theory 36, No.1, 89-94 (1990). [0022-314X]

For $a_i, n_i \in \mathbb{N}$, $i = 1, ..., k$ set $s = \sum_{i=1}^{k} a_i/n_i$. If $s' = \sum_{i=1}^{k} a'_i/n_i$, $0 \leq a'_i \leq a_i$, then s' is called a subsum of s. Further, s is called reducible if a subsum $s' = 1$ exists. The set $\{n_1, ..., n_k\}$ is called splittable iff whenever s is an integer greater than 1, then s is reducible. - In the paper criteria for reducibility and examples of irreducible sums are given. Further, relations between nonsplittable sets and irreducible sums are studied.

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Classification:
11B99 Sequences and sets

Keywords:
reducible sums; splittable sets; sum of fractions of positive integers