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On a problem of Tamás Varga. (In English)

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The authors investigate properties of the expansion of 1 to base q where $1 < q < 2$. In part 1 they investigate the class of q for which the length of consecutive 0 digits in the expansion is not bounded. In part 2 they investigate properties of the sets $A_n = A_n(q) = \left\{ \sum_{i=0}^{n-1} \varepsilon_i q^i, \varepsilon_i = 0 \text{ or } 1 \right\}$, $n = 1, 2, \dots$. In part 3 they study the digit distribution of the greedy expansion of almost all x , with $0 < x < 1$ to base q .

A. Knopfmacher (Wits)

Classification:

11A63 Radix representation

11K16 Normal numbers, etc.

00A07 Problem books

Keywords:

digit expansions; distribution of digits; greedy expansion