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Factor frequencies in generalized Thue-Morse words

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We describe factor frequencies of the generalized Thue-Morse word $t_{b,m}$ defined for integers b greater than 1, m greater than 0 as the fixed point starting in 0 of the morphism $\phi_{b,m}$ given by $\phi_{b,m}(k)=k(k+1)...(k+b-1)$, where $k = 0,1,...,m-1$ and where the letters are expressed modulo m. We use the result of A. Frid, On the frequency of factors in a D0L word, Journal of Automata, Languages and Combinatorics 3 (1998), 29-41 and the study of generalized Thue-Morse words by S. Starosta, Generalized Thue-Morse words and palindromic richness, arXiv:1104.2476v2 [math.CO].

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