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Title: Semiperiodic vectors and the context-freeness of $Q_n = Q \cap (ab^*)^n$

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It is conjectured in DÖMÖSI *et al.* LNCS 710, pp. 194–203, that if Q denotes the set of all primitive words over a given alphabet X containing the letters a and b , then the languages $Q_n = Q \cap (ab^*)^n$ are context-free for all positive numbers n . In this paper we classify the elements of Q_n , in order to get a new method for constructing elements of Q_n .

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