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Title: Counting the number of economical numbers

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Given an integer $B \geq 2$, we say that an integer $n \geq 2$ is a *base B economical number* if its prime factorization requires no more digits than its regular representation in base B , and we say that it is *base B strongly economical* if it requires less digits. We obtain lower and upper bounds for the number of base B strongly economical numbers not exceeding a given positive real number x .

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