Open Problem

Termination of One-Rule Word Rewrite Systems

Let $\ell, r \in \Sigma^*$.

We define $\to \subseteq \Sigma^* \times \Sigma^*$ by

 $u \ell w \rightarrow u r w$ for every $u, w \in \Sigma^*$

Thus any factor ℓ may be replaced by r (nondeterministically).

Open Problem

Is it decidable whether there are infinite sequences $w_1 \rightarrow w_2 \rightarrow ...$?

Announcement

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