Problem #57

Originator: Franz Baader [Baa90] Date: June 1993

Summary: Does there exist a semigroup theory for which there is a reduced canonical term-rewriting system that is not length decreasing?

Does there exist a semigroup theory (without constants in the equations) for which there is a reduced canonical term-rewriting system (with the righthand side and subterms of the left in normal form) that is not length decreasing?

Bibliography

[Baa90] Franz Baader. Rewrite systems for varieties of semigroups. In M. Stickel, editor, Proceedings of the Tenth International Conference on Automated Deduction (Kaiserslautern, West Germany), volume 449 of Lecture Notes in Computer Science, pages 381–395, Berlin, July 1990. Springer-Verlag.

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