

**An error in a proof in the paper
“If $S \times T$ is semiperfect, is S or T perfect?”**

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The purpose of this note is to point out an error in the proof of Theorem 2 in [1]. Indeed, in the statement of the Theorem it is only assumed that the semigroup S is discrete in some rational vector space, whereas in the proof is assumed that S is discrete in the enveloping real vector space. The two conditions are not equivalent, as shown by the example of the additive semigroup generated by a decreasing sequence of rationals converging to some positive irrational number. The Theorem is saved if one assumes that S is discrete in the enveloping real vector space.

References

- [1] Bisgaard T.M., *If $S \times T$ is semiperfect, is S or T perfect?* Hokkaido Math. J. **29** (2000), 523–529.

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