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Title: Product closed modules need not be artinian

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A module M is called *product closed* if every hereditary pretorsion class in $\sigma[M]$ is closed under products in $\sigma[M]$. It is known that if M is product closed, finitely generated, projective in $\sigma[M]$ and is such that every hereditary pretorsion class in $\sigma[M]$ is M-dominated, then M has finite length. In this paper a module M is constructed which is product closed, finitely generated and projective but which is not artinian.

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