Title: Diophantine quadruples in the sequence of shifted Tribonacci numbers
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The Tribonacci sequence $\left\{T_{n}\right\}_{n \geq 0}$ has initial values $T_{0}=0, T_{1}=T_{2}=1$ and each term afterwards is the sum of the preceding three terms. In this paper, we study sequences $a_{1}, \ldots, a_{m}$ of positive integers such that the product of any two different terms is a Tribonacci number. We prove that there is no such example with $m=4$, give an example with $m=3$, and leave as an open problem to find all examples for $m=3$.

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