

PROBLEM N.4 - INVERSES OF \mathbb{Z}_m

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March 22, 2019

Let $n \in \mathbb{Z}_m$. Multiply n by each number in \mathbb{Z}_m modular m . If $n * i \pmod{m} = 0$ for some $i \in \mathbb{Z}_m$, then i is the multiplicative inverse of n .