

N.3 Zero Divisor

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My simple test to check to see if a number, a , is a zero divisor for some \mathbb{Z}_m is to check any element of \mathbb{Z}_m against all of the other elements of \mathbb{Z}_m , b , such that if $(ab)(\text{mod } m) \equiv 0$ then a , is notated. I continue this for all elements of \mathbb{Z}_m and keep only the unique a 's.