N.4 Inverse

AJ Rasure Programming for Problem Solving

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My simple test to check to see if a number is multiplicative inverse for some element of \mathbb{Z}_m is to check any element of \mathbb{Z}_m , a, against all of the other elements of \mathbb{Z}_m , b, such that if $(ab)(mod\ m) \equiv 1$ then a, is notated. I continue this for all elements of \mathbb{Z}_m and keep only the unique a's.