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(mod n)=1 has a solution if and only if  $d=1$ .  $\wedge k, l; \forall a, U(n) \nexists S \{? U(n) \forall u5b^*$ Elementary Number Theory 2çIZ\* n Proof. We need a lemma:  $\gcd(a,b)=1 \Leftrightarrow \exists s,t \in \mathbb{Z}$  such that  $as+bt=1$ : ( $\Rightarrow$ ) It follows immediately from p.4, thm.0.2. ( $\Leftarrow$ ) If there exists  $s,t \in \mathbb{Z}$  such that  $as+bt=1$ , then since  $\gcd(a,b) \mid S$  a and  $\gcd(a,b) \mid S$ b, we have  $\gcd(a,b) \mid S(as+bt)=1$ .

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$U(n) = \{x \pmod n \mid \gcd(n, x) = 1\}$ . So clearly  $1 \in U(n)$  because the  $\gcd(n, 1) = 1$  (which is true for any number) and because  $1 =$  e under multiplication which must be an element of  $U(n)$  by  $U(n)$  being a...

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