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(mod n)=1 has a solution if and only if d=1. $\wedge k, t; \forall a, U(n) \cap 2 \text{ SE} [? U(n) \forall u5b$ Elementary Number Theory 2çZ* 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 $\gcd(a;b) \mid a$ and $\gcd(a;b) \mid b$, we have $\gcd(a;b) \mid (as+bt)=1$.

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Solution: If $a \mid b$, then $b = ka$ for some integer k : If $b \mid a$, then $a = 'b$ for some integer l : Hence $b = ka = k'b$; then we obtain $b k' = 0$: This implies $b(1 - k') = 0$ so either $b = 0$ or $k' = 1$: If $b = 0$, then

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