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$(\text{mod } n)=1$ has a solution if and only if $d=1$. $\hat{k};\text{;}\notin U(n)$ $\hat{2}$ $SÉ[? U(n)$ $\check{u}5b^\circ$ Elementary Number Theory 2çíZ* n Proof. We need a lemma: $\text{gcd}(a;b)=1 \Leftrightarrow \exists s;t \in \mathbb{Z}$ such that $as+bt=1$: (\Leftarrow) It follows immediately from p.4, thm.0.2. (\Rightarrow) If there exists $s;t \in \mathbb{Z}$ such that $as+bt=1$, then since $\text{gcd}(a;b) \mid a$ and $\text{gcd}(a;b) \mid b$, we have $\text{gcd}(a;b) \mid (as+bt)=1$.

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

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