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The solution is  $s \equiv 72729 \pmod{87037}$ . Adding

on multiples of  $(p - 1)/4 = 87037$  yields the

four solutions  $s \equiv 72729, 159766, 246803,$

$333840 \pmod{348148}$  to the original

congruence. We can pick out which solution is

correct from the relation  $g^s \equiv v \pmod{p}$ ,

i.e., the correct value of  $s$  should satisfy

$113459s \equiv 185149$ .

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Therefore  $c = gq$ , which completes the proof that  $\gcd(a, b)$  divides  $c$ . (d) We are given that  $au + bv = g$  and  $au_0 + bv_0 = g$ .

Subtracting and rearranging yields  $a(u - u_0) = -b(v - v_0)$ . Dividing both sides by  $g$  gives  $\frac{a}{g}(u - u_0) = -\frac{b}{g}(v - v_0)$ . We observe that  $\gcd(a/g, b/g) = 1$ .

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$\Pr(\text{Alice released and jailer says "Carl"}) = 1/6$ ,  $\Pr(\text{Bob released and jailer says "Carl"}) = 1/3$ ,  $\Pr(\text{Carl released and jailer says "Bob"}) = 1/3$ . So the fact that the jailer told Alice that Bob will stay jailed means

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that  $\Pr(\text{Alice released} \mid \text{jailer says "Bob"}) = \frac{1}{6} \frac{1}{6+1/3} = \frac{1}{3}$ .

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