Prove that $\left\{-\frac{(m-1)}{2}, -\frac{(m-3)}{2}, \dots, -2, -1, 0, 1, 2, \dots, \frac{m-3}{2}, \frac{m-1}{2}\right\}$ is a complete residue system modulo m if and only if m is odd.

—

pf.: Let $S = \left\{-\frac{(m-1)}{2}, -\frac{(m-3)}{2}, \dots, -2, -1, 0, 1, 2, \dots, \frac{m-3}{2}, \frac{m-1}{2}\right\}$.

First suppose m is odd. Let $m = 2k + 1$, for $k \in \mathbb{Z} \setminus \mathbb{Z}^-$. Take any $n \in \mathbb{Z}$. By Ex. 15.c., we may write $n = mq + r$, where $q, r \in \mathbb{Z}$ such that $-\frac{|m|}{2} < r \leq \frac{|m|}{2}$.

Claim 1 ($r \geq -\frac{(m-1)}{2}$): Clearly, since m is odd, we have that $-\frac{|m|}{2} \notin \mathbb{Z}$. Now use the above Lemma to write
$$\left\lceil -\frac{|m|}{2} \right\rceil = \left\lceil -\frac{m}{2} \right\rceil = \left\lceil -\frac{(2k+1)}{2} \right\rceil = \left\lceil -\frac{2k}{2} - \frac{1}{2} \right\rceil = \left\lceil -k - \frac{1}{2} \right\rceil = -k + \left\lceil -\frac{1}{2} \right\rceil = -k + 0 = -k.$$
Note $-k = -\left(\frac{m-1}{2}\right)$. Note also since m is odd, clearly $-\frac{(m-1)}{2} \in \mathbb{Z}$. Hence, since $\left\lceil -\frac{|m|}{2} \right\rceil = -\left(\frac{m-1}{2}\right)$ is the least integer greater than $-\frac{|m|}{2}$ and since $r > -\frac{|m|}{2}$, it follows that $r \geq -\frac{(m-1)}{2}$.

Claim 2 ($r \leq \frac{m-1}{2}$): Clearly, since m is odd, actual equality in $r \leq \frac{|m|}{2}$ cannot hold. So $r < \frac{|m|}{2}$. Since
$$\left\lfloor \frac{|m|}{2} \right\rfloor = \left\lfloor \frac{m}{2} \right\rfloor = \left\lfloor \frac{(2k+1)}{2} \right\rfloor = \left\lfloor \frac{2k}{2} + \frac{1}{2} \right\rfloor = \left\lfloor k + \frac{1}{2} \right\rfloor = k + \left\lfloor \frac{1}{2} \right\rfloor = k + 0 = k = \frac{m-1}{2}$$
is the greatest integer less than $\frac{|m|}{2}$, it follows that $r \leq \frac{m-1}{2}$.

Hence, by Claims 1 and 2, we deduce $-\frac{(m-1)}{2} \leq r \leq \frac{m-1}{2}$. Since $n \equiv r \pmod{m}$, it follows that n is congruent to some element of S modulo m. To show n is congruent to only one element of S, suppose $n \equiv i \equiv j \pmod{m}$, where of course $i, j \in S$. So $m \mid i - j$. Note $-\frac{m}{2} < i, j < \frac{m}{2}$ implies $m \mid i - j$ if and only if $i - j = 0$. This shows n is congruent to exactly one element of S. Thus, since $n \in \mathbb{Z}$ is arbitrary, this proves S is a complete residue system modulo m when m is odd.

Next suppose S is a complete residue system modulo m. Note a complete residue system is defined to be a set of integers. Hence, since $S \subset \mathbb{Z}$, it follows that, in particular, $\frac{m-1}{2} \in \mathbb{Z}$. So $m - 1$ is even. Thus m is odd.

Therefore S is a complete residue system modulo m if and only if m is odd. QED.

Elementary Number Theory Strayer Solutions

Patrick M. Jenlink

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