Codeforces Round 792 (Div. 1 + Div. 2)

May 20, 2022

1 Problem B

Let's consider x, y, z where x < y < z because through each equation, x, y, z keep getting smaller and smaller. This is an approach I find it easy, of course there are various solutions.

- z = c because z < x
- $y \pmod{n} = b \to y \pmod{c} = b \to y = b + c$ because $b < c \to y$ is not divisible by z
- $x \pmod{y} = a \to x = a + b + c$ because b + c = y and a < b < c so x is not divisible by y

In conclusion, x = a + b + c; y = b + c; z = c.