```
TZU - CHINES REMAINDER THEOREM
    Problem .
            Woman Sarajno elago
Se Kraikeck over lag horse, harse crushus
            cides offers to pay for the eggs she had, however she does nemerles that when the
                          3 left over.
                  -9 task han only the at a time
                   G left over the only 15 at 16 time,
            What is the land number of eggs that the had in the basker?
   Ly three exists this
                    X = 6 med 14
X = 9 med 15
       161 D = 14" med 13
           Wild gross :
            take X as 3-14- a · 15 · b
                    L 3 · 1 · 1 | 5 | 3
                    5 3 med 13
                                    ( because multiple of 14)
              X = 0 mad 14
                     = 0 mad 15 C because militale of 15)
          let c = 13 moot 14
                                       let e 1 13 mad 15
          d 2 151 med 14
                                              F = 14" mod 15
                   Y = 0 mod 13
                  Y = 6 mad 14
                   Y : 0 mad 15
         Now take x = X - Y + Z
           x 5 5 7 7 7 7 mold 13 2 3+0+0 5
               x = x - y + Z
           X + X + X + Z + mal 15 : 0 + 0 - 9 =
                                b = 15" mod 13
          a = 14 mod 13
                                                C 3 13 mod 14 3 (-1) mad 14
          a 🖠 1
                                b = 7
                                e = 13" med 15 f = 14 f med 15
          d = 15 1 mad 14
         X - 3 4 a 15 6 1 3 4 1 1 1 3 7
                                       X = X + y + 2 -> O number that satisfies
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