obs-If the remainder repeats it means ue house got a sub-anay whose sum is divisible by n eg 1014 ! 6 n= 7 Rem sum 0 (14) 24-10=14 24 (14, 1, 6) 31 - 10 = 21 25 7 31-24=7 31 (),6)

Obs-2. We don't need to keep track of total, tracking remainder is sufficient eg 10 14 1 6 n= 7 Sum Rem (0+10)".7\_3 as you can observe we  $(3+14)^{1/0}$  3 get the (3+1) %7 4 same semaindes (446)7,7 3

Obs-3 Fornegative values the remainder should be en lift of number line 5 -65 -67 -67 (n + v)% n = 4 (x + v)% n map. 0-2 1 -> 1 (0+5)% 4 = 1-3+1 -2 > 1 (1-65)  $\frac{1}{2}$   $\frac{1}{2}$ ams = 1(0-67)%4 = -3

$$(-3-67)\% = -2$$
here we only considered -60
and skipped on -65-67 = -132

$$(14)\% + (1+1)\% +$$

((1-67)%4+4)%4=2 fams=2