M A Stop

GCU, GCC, GCA, GCG

$$4! 4! 3!$$

$$= 1 \times 4 \times 3 + y = 1 \times 4 \times 3$$

$$1000000 + 1000000$$

mod \$2

$$answer = 127.2 = 0 = n$$

$$8um=2 \Rightarrow prod=0$$

Take modulus of each term; multiply the results; take the modulus of the product

$$127.5 = 2 = n$$

17.5=1

$$\frac{1}{2}$$
 prod=12  
 $\frac{1}{22.5}$  sum=8  
 $\frac{1}{22.5}$  = 2

a=b mod n ~ a and b are congruent mod n true when:

a mod n = 6 mod n

if  $a \equiv b \mod n$  and  $c \equiv d \mod n$ then  $a + c \equiv b + d \mod n$ 

> a = 29 29 mod 11 = 7 b = 73 73 mod 11 = 7 c = 10 10 mod 11 = 10 d = 32 32 mod 11 = 10n = 11

 $7+10 \mod 11=0$   $(29+10) \mod 11=6$  $(73+32) \mod 11=6$  1d ax = = = x d mod n (2ax10) mod 11 = 4 (73x32) mod 11 = 4 (7xx10) mod 11 = 4