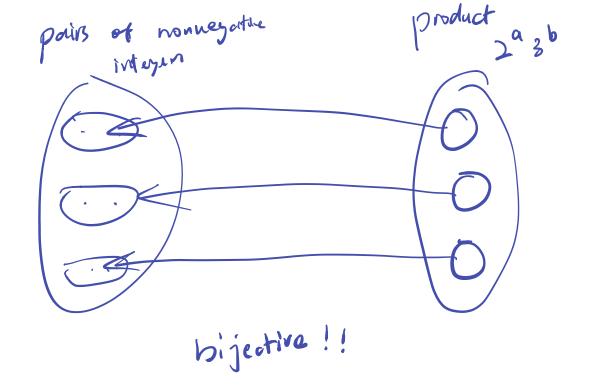
Without Assume: (04) of 2° 36 at ( generality b # d  $2^{(a-c)} = 3^{(d-b)}$ b< d Toold? lenna OK+1) - (7841) odd . odd = axpt >pt>ktl = 0 de assumption is incorrect = odd => 3 (d-b) ode => CHS \$ RHS

2 Surjectivity?

for every pair of nonnegative integers P and 2 the Lam always construct 2P.39

=> Surjectivity is proved.



= therefore, one cong as no home com extract a, b

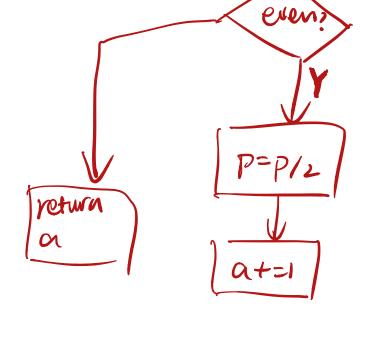
from 2<sup>ch</sup> 3<sup>b</sup>, this representation 13 Valled.

(3) odd x even = even

$$(2k+1)(2m) = 4km+2m$$
  
=  $2(2km+m)$   
 $(2k+1)(2m) = 4km+2m$ 

- ever

extraction of or and b ( aro = 0 )



$$2^{k} = 3 \cdot m + 1 \quad 0$$

$$= 3m + 2 \quad 0$$

$$\begin{array}{ll}
0 & (3mt) \times 2 \\
= 6 mt^2 \\
= 6 mt^2
\end{array}$$

$$\begin{array}{ll}
6 mt^2 & (5mt^4) & (5mt^4) & (3mt^4) &$$