a La con be 33) Such that for every interer no on, nES S. contussion. Herefore by strong industrion, Hore is our integor my sp (HA) of ! K+1= K-4+2= In+9s+ 3= 5+41)+9s : K+1 ES ( 050 057 70 058 057) 2, 1 report 100 500 or 1070 500) S>n-7: Z>n-1 75n-150 pang 02h-1=5-(1+7) by IH and boug case, if as jek jez then jes 9=2 and all these base cases are time moun K+1 ES 50 lot p=3 then a= 3x5+2x9=33 good: to show puth at = 4 = 4 = 4 = 5 (P+1) + 9 (9+1) C18 = 50+99+3 = (5(1-3)+9(9+3) = 8+39+92 = 8+3 028-0 ((8-8)6+(++d) 5 = C+9/+d5 = 2+0 4. Inductive step ASI THORNE & SOUTH IST 15 true for all interpor of from at the p 3. Industrie Hypothesis: assume that for some antituding 123 and 1631 3. Berse Case: Pas octs by definition so Pass is true 1. dot P(n) be 'n ES' we'll prove Par is three for all integer noa De 9,00 or por 970

let integer a be inthis set S so a= 5p+99g for some integer

according to definition of sot S. We can rewrite it as

3. Happily Ever Atter

form or in so arm or in reporting the ref right = X: X: P:2 1:8