(K) -> P(K+1) Inductive Step by: assure P(K) is thre by: assure P(I) A P(2) A- AP(X) The show P(KH) is thre.  $\frac{1}{2} \frac{1}{2} \frac{1}$ 751 3 P(v): 1+ + 1 2- = 6) 13 P(2) me? 5 2 3 5(4) 46(1)

of you would prove the statement · Huzz ( 1 + 1 + 1 + - + 1 + 2 - + ) B Hus Dr. Dars: P(2) 13 the (See Jone) Tidute: (Show P(x) -) P(x+1) assure PW: 1+ y + = + -+ + 2 2 - + Show Scars: 1+ 41-+ 12+ 1 2-1 ghen 1+ 1 + 2+ + + 2 2- = is tre. 1+ ... + cx12 / 2-x + cx+132 11-7 (KH) = 2 - (KH) - K ) were 6 < 2- [K(X+1)] = 2- [K+1] = K+1

	Div: You take Stuff. Lest dayed to
C	Viv: You take Stuff. Lest player to take Something loses.
	#11) ple take at most 3 staks.
	one pile & 1 streks 1= [1, 2,3,4,]
~	Mall phyer are loss 1 moly = 1 phyer 1  N=2 phyer two loses  N=3 phyer two loses  N=3 phyer two loses
	1000 1000
	1 N=5 player are loses  N=6 player two loses.  N=6 player two loses.
	N= 4j+1 player Ox (uses)
	Indutte: assure the pattern is the for
	N=1,2,3,., K
	Sym bythern maks for 1941
	Kt1 red 4 = 0,1,2 a3
	Case
	(SE) 11 - 11 - () 7. 3 W
	perar 1 rady = 0 } X-2 rady=1
	2 Ky rad = 3 \ Xx1 rad = 2 \ Xx rad = 1
	3 ×2 rad 4= 2 ]

42 #7) \$2 and \$5 2, 22=4,5,3;2=6,54=7,4,2=8,22+5=9,2.5=10, 4\$5 5,2=65 5 to = 7, 4.2 = 8 asua 34 \$5 \$6 \$7,88, ... \$K taki 9(K-4) + 1,95 = \$(K+1)

this is

quiedial = \$2,95