Practice exercise	
D Let a EZ+. Show that if a is odd then a	n ² must be odd.
@ Proof using induction that 1+3+5+9+ + 2k	
2 Inductive Predicate:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
12+3+5+9++2/1-1) = 12	- F32 12 F32 P
Base case:	France Comments
P(1) 29 LHS = 1, RHS = 1	The state of the s
Indictive step:	
If 1+3+5+2++2(1-1)=12	Marin Charles at the third was the
then 1+3+5+2++2(i+1)=(i+1)2	
[HS = 12+ 2(1+1)	
=12+2 = (i+1)2	The second secon
RHIPERAITIE = RHS	The state of the s
1 If h2 is even then n is even	
n is even so we can write n=2k	The state of the second second
$n^2 = (2k)^2 = 4k^2 = 2(2k^2)$	A to sure who hade a F code
Which meens 2k2 is an integer, so we c	in write 2(2h2) is 2p.
80, h2 = 2p which	
this me as h2 is even.	A REST OF THE PERSON OF THE PE
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	The state of the s