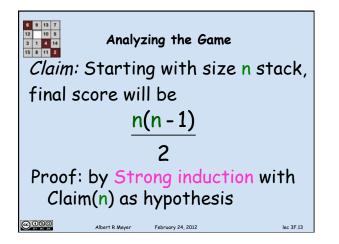
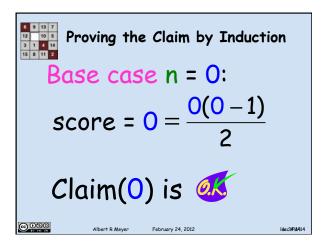
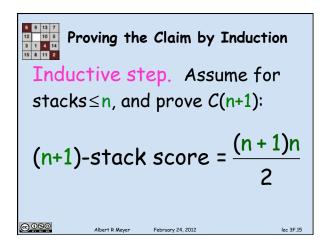


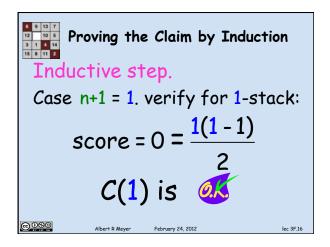
Analyzing the Stacking Game  
Claim: Every way of unstacking  
n blocks gives the same score:  

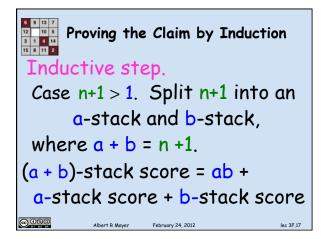
$$(n-1)+(n-2)+\dots+1 = \frac{n(n-1)}{2}$$

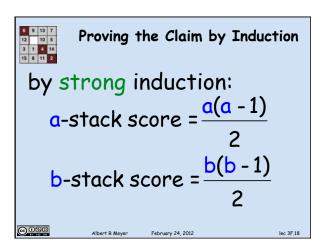












Proving the Claim by Induction total (a + b)-stack score =  $ab + \frac{a(a-1)}{2} + \frac{b(b-1)}{2} =$   $(a + b)((a + b) - 1) = \frac{(n + 1)n}{2}$ so C(n+1) is we're done! 6.042J / 18.062J Mathematics for Computer Science Spring 2015

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