Alex Vasiuk DM#2 Divide Pair Conquere 02 $f: Z^{\dagger} * Z^{\dagger} \rightarrow Z^{\dagger}$ $f(m,n) = \frac{(m+n-2)(m+n-1)}{2} + m$ Solve: $f(x-1,1)+1 = f(1,x) \Rightarrow \frac{x(x-1)}{2}+1$ $f(x-1,1)+1 = \frac{(x-x+1-2)(x-x+1-1)}{2} + x-x+1 =$ $=\frac{(x-2)(x-1)}{2}+x^2=\frac{x^2-3x+2+2x}{2}$ $=\frac{x^2}{2} - \frac{x}{2} + \frac{2}{2} = \frac{x^2 - x}{2} + 1 =$ $= \frac{X(X-1)}{2} + 1 \Longrightarrow f(1,X)$