Proove by Centrapositive Y nED n²+2n+2 is even > n is even Contrapositive: n is odd $\Rightarrow n^2 + 2n + 2$ is odd. let n GW be odd st n = 2k+1 Pv sme k GW. then $n^2 + 2n + 2 = (2k+1)^2 + 2(2k+1) + 2 = 4k^2 + 4k + 1 + 4k + 2 + 2$ = $4k^2 + 8k + 4 + 1 = 2(2k^2 + 4k + 2) + 1$ which is odd Hence the statement is true by autrapositive.