1 aim Buse 1c now and assume hoose ((4) //(4)) =(14+1)

the Claim: For all natural numbers n2, S2(1)=2, and 1(1+1)=2 So therefore & di=1(1+1). Assume that for some positive integer 1c, & die k(tet) (|c+1|(|c+1|)) | (|c+1+1|) | (|c+1|) | (|c+1|)= ((((+1) + 2((c+1) = (1c+1)(1c+d) = (1c+1) ((1c+1)+1)

lamitorall new marzn is even Therefore, when n=0, nd-3n is Therefor na-3n is even.