Total xc. of executions of the executable statements in the else block $2 \cdot (2 + 2^{4} + 2^{3} + \dots + 2^{n-1}) = 2 \cdot (2^{n} - 2) + \dots + (2 + 2^{4} + 2^{4} + \dots + 2^{n-1}) = (2^{n+1} + 2^{n}) = (2^{n+$ The if statement on line 4 is executed (2º+2+2+. The if block is executed 2n times overall. The for start is executed for 2h. (nH) times The truth values are expected for 2non times The newline is printed for 2n times. Total stor count 2nd - 1 (2nd) + 2nd 1 + 2nd Total step count: (2n, 3-4)+ (2n+1-1)+ 2n, (n+1)+2n, n+2n $=2^{n+1}(n+3)+2^{n}-5$ (Wrong) Total no of executions of the executable statements in else block: $2 \cdot (2^{0} + 2^{1} + 2^{2} + 2^{3} + \dots + 2^{n-1}) + (2^{1} + 2^{2} + 2^{3} + \dots + 2^{n-1}) + (2^{n} + 2^{n} + 2^{n})$ $=2(2^{n}-1)+(2^{n}+2)=2\cdot(2^{n}+1)-4$ Total step court: 2.(2n+1)-4+2n+-1+2n.(n+1)+2n.n+2n $= 2^{n+1}(n+2)+2^{n+1}-5 = 2^{n}(2n+6)+2^{n+1}-5$ Autor Day