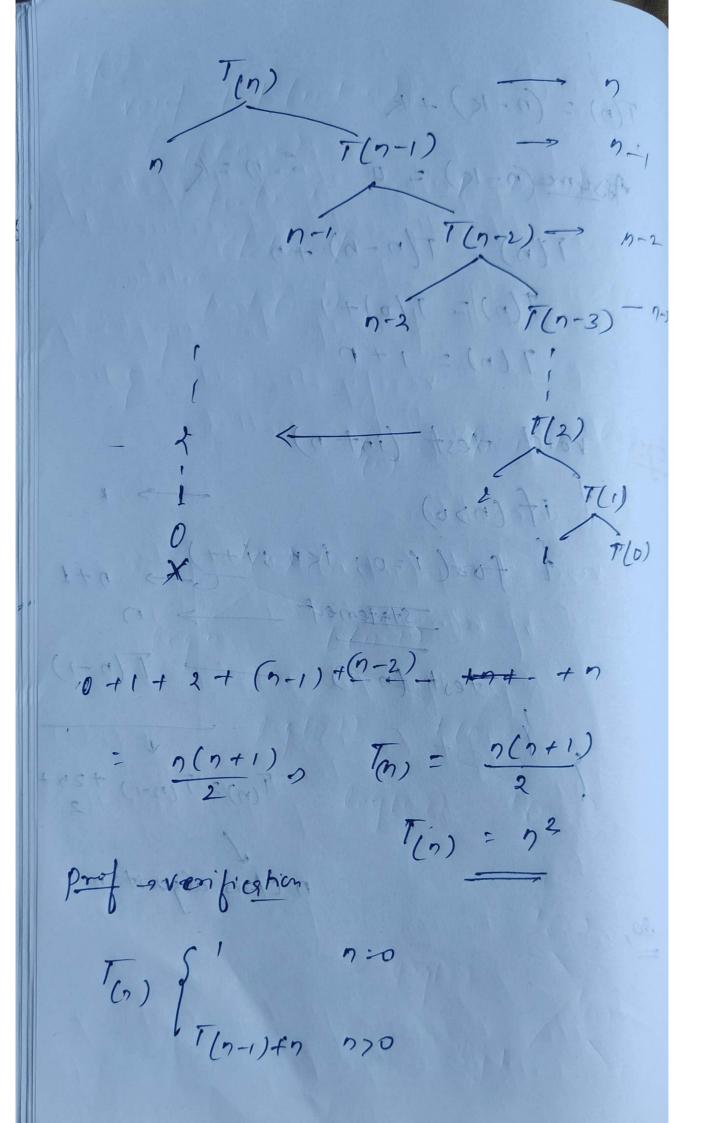
Lind the recurrent of? of the following funtia. For the ostained recurrent reconstre for sel- use sussitution method to find of time complexity. & and also verify the obtained time complexity using free method Recyssive relations roid fest (int n) { if w(0>0) 1- (1-1) 1-1 & pornt (''/d',n); + 1 + test (n-1); + T(n-1) - T(n) = T(n-1)170): [17(0+2)+1]+2 (1) s+ (1+(E-B)T) b (a)

Test (3) tively nos sont it by by To: (n+1) a south prices photos Recursive selopion ? $T(n) = \begin{cases} 1 & (n+1)^2 & ($ 3° T(n) = T(n-1) + 7 T(n-1)= T(n-2)+7 by subsitution T(n) = [T(n-2)+1]+1 T(n) = T(n-2)+ 2 T(n) = (T(n-3) + 17 + 3)

T(n) = (n-K) + K Assume (n-14) = 0 5.7=14 T(n) = T/n-n) +n T(n) = T(0)+1 rord test (int n) of if (n>o) { foo(i=0; i<n; i++) n+1 Statement ____ test (n-1) (n-1) T(n) = T(n-1) +2n+ n class algorits on



$$T_{(n)} = T_{(n-1)} + n$$

$$T_{(n)} = [T_{(n-2)} + n-1] + n$$

$$T_{(n)} = [T_{(n-2)} + (n-1)] + n$$

$$T_{(n)} = [T_{(n-2)} + (n-1)] + n$$

$$T_{(n)} = [T_{(n-2)} + (n-1)] + n - (k-2) + n$$

$$T_{(n)} = [T_{(n-k)} + (n-k)] + n - (k-2) + n$$

$$T_{(n)} = [T_{(n-k)} + (n-k)] + n$$

$$T_{(n)} = [T_{(n$$

rond test (int n) l' if (1>0) for(i=1; i<n; 1=i+2)

Statement

Log(n) test (n-1) (1-0). (1-1) (10-3)+10-2/4(041)+1 (1-1) - (n) + log, T(2) 1 (2-1) + (1-1) log (n-1) 2+5 T (n-2) :(1) log (1-2) [(1-3)] 1 (2) log(2)