

```
n|g(n) \notin O(n)
    ACERT, ANOFWI JUENI US NO => fin> C. fin)
 Proof by contradiction:
     ICEIRT, FNO 6M, HNOW, NO NO => ngn = cn
                                               make sure n is positive.
           \forall n \ge n \ge \exists n \ge \max(n_0, 1)
                           121 E
               n|gn \leq c \cdot n \Rightarrow |gn \leq c \Rightarrow n \leq 2^{c}
                                               if we pick N=2C+1
          Pick n= max (no, L29+1)
                                     of it be not mal
Trylor bound. O.
         (n(n) | g(n) | g(n^2) | g(n))^2 n n(og(n) 2^n 2^{2n}
  In(n)
  19(n)
  18 (m)
 (1/g/n/2)
  nlog(n)
                                                                     brud.
  2n
```