```
PREGUNTAD
   FUNCIÓN ALGORITMO (n)
    Conter 2" -
                                        +(n)=n.o(n)= o(n2)
    for < 1 ton do-
                         - 1+Oa)
                                        t(n)=0(n2)/
       SK Cont-
                           - n veces
                           1->0(1)
        while 5>1 do
          54-5/2-
                          - log_(2") = NUCOS
        endwhile
                              O(n2)
    and for
    returns
PREGUNTA (2)
 +(n)=2T(1)+n, T(1)=1
  十(至)=2十(室)+生
     十(2)=2+(4)+当
 +(n)=2[2+(1)+1]+n
   ナ(か)= 4+(か)+2か
```

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PRESENTA @

t(m) = 2T(\frac{m}{2}) + n, T(n) = 1

t(\frac{m}{2}) = 2t(\frac{m}{2}) + \frac{m}{2}

t(m) = 2[2t(\frac{m}{4}) + \frac{m}{2}] + n

t(m) = 4[2t(\frac{m}{4}) + \frac{m}{2}] + n

t(m) = 8t(\frac{m}{8}) + 3n

\vdots

t(n) = 2^{k}t(\frac{n}{2^{k}}) + kn

t(n) = 2^{k}t(\frac{n}{2^{k}}) + kn

t(n) = n \cdot 1 + n \log n

t(n) = 0(n \log n)

0(f(n)) = 0(n \log n)
```