master metsod-) (For al securance relation)> Gones We somet solere all ainde of receauce relation with this method. · vue can only solve rolatione en the John of T(n) = aT(n) + f(n)where [a=1] [331) Mon the Robertion et 1  $T(h) = n^{\log_b \alpha}$ a b are some constants f(y) es some res Bunction. Pulo Gor matter \$2 m->
The given conation met to polynomial Pourion.

12 - pulp monial Born

( rinium pour  $\frac{h}{a} + h \log_2 h$   $a = 2 \cdot b = 2$ master the not applicable ntalogu al kegn vettien.

 $T(h) = 8T(h) + h^2$ a= 8, 5=2 -: T (4) = n 00 ph 209 2 T(n)=0(n3) \$00+0(4)) =) [(n)=0(x1) Worst Call 4T(h) + us = 0(n5) A a=2 h=2  $\log_2 2$ nth lince they are lame, so att Rogn

T(n) + c a=1, b=2= n log 2 + ( = (+( 20,0(20g h) Efficience of Bin areg lear ch-> Binary Search ) It is based on direde & conquer n, 1/2, n/4 -... Be cause at these Clones is there) h= 2 k Take bog on both lides log n = altg 2 log n = h Beet (ale (whon n=1) Warst (age ( When element is not present)
=> 0 (loge n)