算法基础 m1 1 Event A + TO ME 10 - 1 Min - 1 Min Fm(n) = = fi(n) = m O(gen) 对于 4m. 抗多 Fmcn)=m Ocguni)=Ocguni) ≥. 锅没  $\frac{c}{2} f(n) = n = g(n) = O(n) = 1$   $f(n) = \frac{c}{2} f(n) = n^2 + O(n) = 1$ 型行,… } 描述 Vient = Ofin(n) = o(gun) #2 fich) = o(gun)) 金子(n) = 樹屋 fo(n) ··· 後申 ∀i fi(n) = o(gun)) 1945 = f. (n) = Jgcn) K>1 1/2 1/3/2 又位ficni= ofiticni) 科をfiti(n) = Jficn k>1 別芸 fin(n)= 大fingun 時成立 那 toke. 正确。 4、猪堤  $f(n) + g(n) = \Omega(h(n))$ 俊元的和geni可以在特定的值下取到。每但满足。至一几(hin)

765 for fini+gin)=n(sin (n7+4)+252)
= m (ISINATU + IS GOSATU + F)
= m (Sinnt) + Scosnt + 5)
= 15 (sinn (+1) + 5 n (60s n (+1)
2
2 $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$
$2 \Omega(h(n)) = O(n)$ $ 2  f(n) + g(n) = \Omega(h(n))$
但可以收到n便重便fin, gun & schem)
The second of th
J
三年(1977)中一年(1977) - 1977年(1977) - 1977年(1977)
12 2 5 19 w/s 1-2 TOSE = 10
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Control of the Contro

<del>,</del>	70000000000000000000000000000000000000
2 = SAco, n1 = n+1	INNO
Acm+1,07 = Acm+11	1 m 2 0
Acmai, nal) = A(m, A(mal, n))	
	a series de la
一般情况下 Acmins >1.	
当 m=0 A(n,n)=n+1 当 m≠0 A(m,n) 姓入並13(11)	
假设 m=k 递归可以从 Aco, n/长止	
当 m=k+l bf A(k+1, n)	11-11-11
e h=0 Bf A(k+1,0):	= A(K, L),由限设有WH
n≠o at a 形设	
	By Acker, Exi)
_ 1442 I	trk+1,+1任上海的i
	, 门曲假设任止
12.1分上·	
	•
	O to C to

21 8 Th AIMTI, N/> AIM, N) A(min), & mo Scon = n+1 1 Mak 2 A(m, n) \$ 120 A(m, 1, 0) = A(m, 1) 先近 A(m, n+1) > A(m, n) 对A(m, n+1) 当m=0 A(0, n+1)=n+2> An+1=A(0, n 当 m= k+1, k>0 A(k+1, n+1) = A(k, A(k+1, n)) FIR A(m,n) > m+n 3 m=0 A(0,n)=n+1>n 假设 m=k 时放至 Alkin)> k+nx m=k+1 bt A(k+1,n) & n=0 A(k+1,0) = A(k,1) > k+1 像的n=七效之 A(K+1,七)> k+1+七 n= ++1 Bf A(k+1, ++1) = A(k, A(k+1,+1) K+ ACK-11>>k+ > k+A(k+1,t) > k+k+1+t=2k+t+1 > k+t+2. 131- Arm, n1>m+n

( A(k+1,n+1) = A(k,A(k+1,n)) > k+A(b+1,n)
>ACK+1,n, from the
Acres. Par. A(m, n+1) > A(m, n)
The second secon
The Alman) > frm, n)
生 n=v A(m+1, a) > A(m, 1) > A(m, o) (由首证)
当 n= t+1. A(m+1, t+1) = A(m, A(m+1, t))
>Arm, m+1+t) = Acm, ++1)
12-1- Acm+1, n) > Acm, n)
31 du = wu
B A(0,n)=n+1≥1, 年春点 (xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
$A(d(x_1), d(x_2)) \leq x_1 < x_2$
dixi)=d(x2) 加d(x)单调 100 ==
( n 2 n 1 - 1 = -
+1477

Q311) 1. Tun= 3(2)+12 Tun= Q(n2) 2 Tin1 = 4(2)+n2 Tin1 = O (n2logn) 3. T(n)=T(1)+2" T(n)= 0 (2h) 4. T(n)=2"T(=)+n" = 2" 7 & const J. T(n)=16T(本)+n T(n)=日(n2) 6. Tin= 2(5) +nlgn Tin= O(n/g'n) fen, € O(n1-2) ## R(n1+E) ¢ (nlg\*n)  $T(n) = \theta(n^{\alpha+1})$ 8. T(n)=27(\$ 1+n0.51 9. Tin= OST(\$1+1

```
T(n)=16T($)+n!
                         T(n) = O(n!)
                         TIN) = O(n=1
   T(n)= 3T(=)+n
                          T(n) = O(n)
                                            O(n
  T(n) = 4T(\frac{n}{2}) + \frac{n}{19nn}
              - n2/gn
                            TIME OCH)
                            T(n) = O(n^2)
                                T(n)= 0 (n
24. T(n)=27(=)+n/g/g
```

12) 7. T(n) = 2T(2)+Tgn e=(1,-1), m=1  $T(n) = \frac{n}{19n} |gn| |g|gn = n |g|gn$ 23. T(n) = 2 T(2) + n/gn/g/gn e=(1,1,1) m=2 Tini=nignigignign=nig2nigign 24 T(n)=2T(=)+n(tg/gn) r+0 e=(1,0,7) -m=2 T(n)= n(lg lgn 12 lgn e=(1,-1,-1,5) m=3 lglgn) slgnlglgn lgnlglgn lglglgn giglgn) slgnlglgn lglglgn lglglgn niglgn