	CSE SZI-HWZ
4)	
a-) T(n) = 3 T(n-1) -2 T(n-2)	b-) T(n) = T(n/2) + 3
a2 = 3a-2	>> Moster theorem
a2-34+2=0	T(n) = à T(n/b) + Q(n)
(a-2) (a-1)	a-1
f(n) = c, (a) + c, (a)	5-2 S(n)=1 that is cose to
f(n) = c, 2 + c2 T(1) = L T(2)=2	
$(1) = -\frac{1}{c_1^2 + c_2^2 + c_2^2 - 1}$ $(1) = -\frac{1}{c_1^2 + c_1^2 + c_2^2 - 1}$ $(2) = -\frac{1}{c_1^2 + c_1^2 + c_2^2 - 1}$ $(2) = -\frac{1}{c_1^2 + c_2^2 - 1}$ $(2) = -\frac{1}{c_1^2 + c_2^2 - 1}$	$(n)_{-2} O(2^n)$
617179	The state of the s
(-1) $T(n) = 4T(n-1) + 4T(n-2) + 3n$	2-) T(n) = 4 T(n/2) +n
a2 = 4 a + 4 + 3 a	-> Mester Theorin
27-49-4 = 3h	$T(n) = \alpha T(n/b) + f(n)$
(a-2)2 = 0 at = a=2	$a=a$ $s(n)=n^2=e8(n^4)$ $d=2$ $b=2$
C(n) = c, (a+1) + c, n (a-1)	8 (n² logn) 2 8 (n² logn)
f(n) = 2"(c1+c2n)	
e-) T(n) = 2T(n/2) + O(n) a=1: 5=2: -	f-) T(n) = T(n/2) + T(n/a) + n
7(n)=27(n/n)+cn 2=1	B(h) = B(2) + B(2)+1
TIN = 2527 12/+ (12) ]+00	Q(n) = 2Q(n) + n
+(n)=277/21+20/21+0	0= 0(1) +1 => thet sinposible
T(n) = 22 T (21) T = 2 C(A)	7(n) = 8 (nl)gn)
7-1-1 1097=2	8(n/09n) = 0(21092)+ 8(21012)
71,07 = 0 Tal 4 O(p2)	8 (n/m) = 8 (n/syn) + 8 (2 42) +n
3-) T(n) = T(n/2)+n	\$ 0(n/24n) =n 0(n/24n) =2n
0=1 6=2 S(n)=n d=1 50001 T(Jn)=	2+10/47+1 Tal=0 (nlaps)
	T(n'4)+1+1  (n'2)+1+1+1  (n'2)+1-11
h-) TG1=2T(5h)+1 7G1=26-7	(かか)十巻20 と一つのが一一109
ていって	109(1) + 3 2 2 => 0/5

827) T(n) Hcs is-5denced (Post): if rook is Work! OCO) [ left h = height of the (post left) O(n) right-h= height-of-trac(rost-right) 46112 10(11L) 2 To(n/2) it (abs (left-he=right-4) == 1 and is-schned (root-left) and is-schned return Truc return Folse T(a)= 2T(012)+206) Mester Theoren => n 12922 = n> 10 T(n) = O(n129n) ncinht-of-4100 (8004): if 100+ is Word: return O left-h=tright-of-tree Crost-left 7(1/1) lest = horapht-of-tree crob. (igh) 7(1/2) Ballettah Dright to return lett h tl return tright +1 7(n)=27(n/2)+0(1) Music 7 -5 1024 25 0(1)



