	Alone II as C. Date Charles		
	Algorithms & Data Structures  ttw#3		." io
	Problem 3.2		
	11001011312	, e	4
(d_	let $A = (a_n a_{n-1} a_1)_2$ cusuming n to be a power of		
-	$B = (b_{1}b_{1-1}b_{1})_{2}$		
,	D - Conon-1 35 5 61/2		
	A churcle a conquerally orithm can be mullemented by breating.		
	4 G1 B into 2 integers of n/2 bits each.		
7	ANTON PRODUCT OF THE PARTY		
	$A = (\alpha_n) \cdot \alpha_{n/2+1} \cdot \alpha_{n/2+1}$	$a_{12}^{n/2} + (a_{n/2}, a_{1})_{2}$	
	1 1 ( ) -) + (1-5.) \ (1-1.)	$\frac{A_2}{a} = \frac{A_2}{a} = A_$	
	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	(1)(-)	
,	B = (bn . 0 0 bn 12+1) 2 0 2 n12 + (bn 12 bi)2		
	B <sub>1</sub>	₿2	
•	01	D2	
7		<i>N</i> 12	
	(AB) = A1. B1.2"+ (A1. B2 + A2. B1) · 2"12 + A2. B2		
c)	reduced to 4 multiplication of 1/2 bit integers,		
	3 additions of integers with 2n bits and 2 shifts.		
	T(n) = I(T(n)) : cn		
	T(n) = 4T(n/2) + cn		
		1	

	T(n) = 4T(n/2) + cn	a).	
	$n \sim 220$		
		· · · · · · · · · · · · · · · · · · ·	
	$n_{12}$ $n_{12}$ $n_{12}$ $n_{12}$ $a_{12}$		
( )	$n_{14} n_{14} n_{14} $ 4(n)	$\eta_i$	
	$n_4 n_4 n_4$ 4(n)		
	n 2 8(n)	n/e n/e r	
,		170 1170	
•	$= \eta + 2(n) + 4(n) + \cdots + 4^{\log n} (T)(1)$		
	·		
	Master Theorem = $n = \frac{\log_2 n - l}{2} + \Theta(4^{\log n})$	e)	
	$\gamma = 0$		
	$n' \log_{b} a = n^2 = n(2^{\log n} - 1)/(2-1) + \Theta(2^2)^{\log n}$		
	$= \Theta(n^2) + \Theta(n^2) = \Theta(n^2)$		
	$T(n) = \Theta(n^2)$ .		
	of proven		
	∆ €		
	-d. f. + "G. (10) - A + 10 (14) + "2" - d. 10 + - (14)		
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Ci	T(n) = 4T(n e) + cn	-	
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