THEME: chap I recurent problem exercises NAME: JHD 1.16 $\{g(1) = d$ $\{g(2n+j) = 3g(n) + \gamma n + \beta \}$ for (a=1, Y= B。= B,= 1) 先正同設等数 1 a $9(2^m + 1) = 3^m = A(n)$ for (r=1, &= \beta = \beta = 1) 2 3a + r + B. $g(2^{m}+l) = \sum_{i=0}^{m-1} 3^{m-i-i} 2^{i}$ $= 3^{m-i} \sum_{i=0}^{m-1} (-\frac{2}{3})^{i} = 3^{m} - 2^{m} = C(n)$ $3 \mid 3\alpha + \gamma + \mid + \beta,$ 4 9a +5r +4 B. 5 9α +5 r + 3βo + β, for g(n)=n,再处同批特所 6 90 +67+ Bo+3B, (a = 1, r = -1, B. = 0, B. = 1) $7 \mid 9\alpha + 6\gamma + 4\beta$ A(n) - C(n) + B(n) = n8 270 + 19 x + 13 B. for g(n)=1 9 270 +197+12B.+ B1 (d=1, Y=0, Bo=B1=-2) 10 27d +20 Y+ 10 Bo + 3 B. $A(n) - 2B_0(n) - 2B_1(n) = 1$ 写3是也没用 g(n) = A(n) a + C(n) T + B.(n) B. + B.(n) B. n=2m+1, for 0=1<2m 1A(n) = 3m C(n) = 3m-2m $B_0(n) = \frac{3^m-1}{2} - L$ 13,(n) = L repertoire method 医就是 特殊的儿

repertoire method 也就是特殊险法 本题也可以二进制 relax, 但效果不理想

COURSE: Concrete Mathematics