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ASSIGNMENT PART A M) Griven, aczp (a+p) (mod p) = @ (mod p) (n(oa° p, 1) + n(, a'p1+ ... +n(na° p°) rosp un) p(3") 2) (0+0+0 +0+a") mody a a (medp) an) 25 1a = {1,2,3,43 a"= { 1,2,3,4} 211: a = {1,2,3,4,5,6,2,8,9,00) at 2 {1, 6, 4, 3, 9, 2, 8, 7, 5,10) (7, 8, 7) } (31319) £ 31,6,4,319,8,8,7. 31) (Euclidian algorithm to fed sed ecq (265AL, M312d) 5. 56245 = 1x 43159 + 1.03086 43149 2 3x13086 + 3901

13086 , 3×3901 + 1383

1383 . 1 41138 + 248

1135 = 4x248 + 143

3981 = 2× 1383 + = 11135

248 = 1x143 + 105 143: 1x105 + 38 105 = 2138 + 29 38= 1 x29 +9" 9= 4x2+1 2= 2 ×1 +0 800=1 : 3 0 a promo, ukt \$ (P)= e) 6 (34) = 34-34-1 3 (3-1) 2) 27x2 21 54 \$ (210) s) 2 0-27 26 - 2 + 2 1 26 28 62 2 3 = (3) (3) (3) * (3) * (3) ~~ (31319) >) ((3) ·(3) · (3) · × 14151) (16(112) (A319)

0 PER 15 6.