C5 350 HW6

Problem 1. a. $z_1^n \leq n(z_1^n - 1)$ $n(z_1^n - 1) = 3(z_1^n - 1)$ = 12.774763 十十六十号 < 0.774763 minimum Integer of 1A1B11G1C11X1A21B21G21C21X1A31B31C31C31X1A41B41C41 q 10 11 12 13 14 15 16 17 8 B, done A3,13, done $\frac{1}{7} + \frac{1}{5} + \frac{1}{6} \le 1$ $\frac{1}{7} + \frac{1}{5} + \frac{1}{6} \le 1$ $\frac{1}{7} + \frac{1}{7} = \frac{14}{30} = \frac{14}{30}$ 2.14x86 ST minimum zytegen - C1 Az a. [A1, B1, C1, M, 6, B2, A3, C2, C2, A4, B2, X, A5, C3, C3, A6, B4, 1A6, 12 13 14 15 1617 1819. 1234567891011 AI BI CI AS BZ AG AS AG done done done done done done done done done done-

Problem 2. PCI) 700) # 1 /24 flagto] = true #1 run (flag II = false) flag [1] = true [Critical Section] (now flag Tol is the) (turn = 0) flag [0] = false (white (turn ==0) ?) turn = | € before P(1) assign flag To1 = falx its flag, PLO) goes foster and enter the # > run flag Tol= Eruc Critical section again's CNOW flagz12 is Still false) flag [1] = true Critical section. [Cribical Section Explain: This happens when Pla) runs much faster than P(1), after P(0) finish Critical Section and change from to 1 and assign flag Til as false, P(1) Stop worting X => but right before P(1) assign flagz(1) astrue. Plo) goes fasten, loop again assign flaggo] science P(1) doesn't check any more, it also every G.S. b. Process i change "it"
60 "while" Repeat flag [o] = true; while (flag [1]) } ~ flag[0] = false; while (furn = = 1) {}; flag TDI = true Critical Section furn = 01; flagTo] = false; Remainder Section forever.