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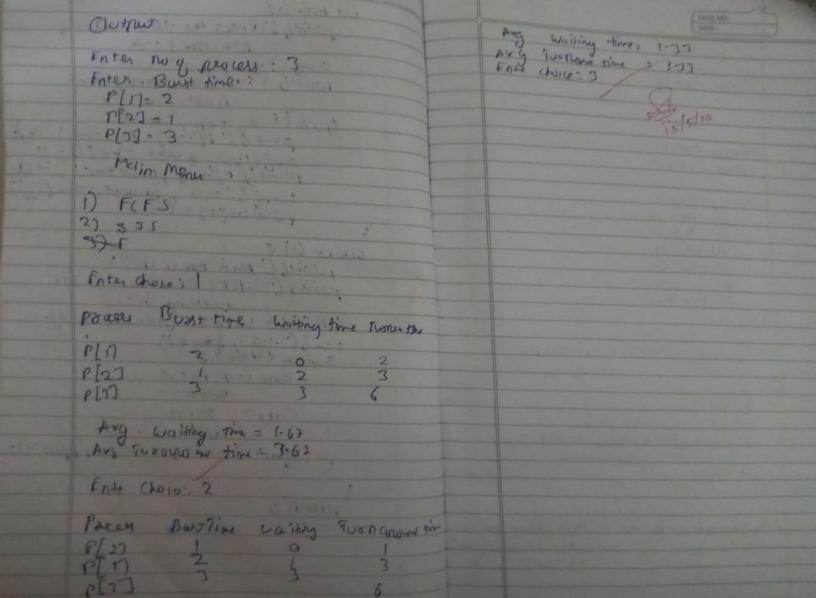
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(10) (10) 1:0; 1 < DUMPSI ; 1+1) } print (" In Process y Ja" 1++) grejum max (nextours), persu[17. party (===) Execution fine 1) Remod[2]] scop ("10", exerime[]) elee 16 (sel-algo == 2) tentine [1] exelime[1] 16 (Scheller - algo = 2) & action more (dewline [0] deadline [1] Day (==> DI (-)) deadline 2713 Scop ("10" forwhie 11): Void point - scredule (int pas, st 17, int cycle) Pointy (" ==) possed: ") point (" Is cheduling In In !) Scorp (" 1. J.", predwofil); paints (" Time: "Y 608 (int 100; 1 < man g - pas , it) bay+ (, b[10] ; " 111) = in + maretin+4, b, c] (so (int)=0; j < ayell, j+) 16(PDS-10+[1] == 1+1) 16 Ca>= b. 8 fa>= C) Ple 16 (6>= a ff 6>= c) p. 80016 ("1") elin (00 4 / 100 b) 6 2011 (12.1) 20mm muse int go abs - time (in ser algo) you swe-runotonic (int time) for px-instist of minegay Umis DS1=0 1

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Cue 3 eni+(o) was I propose to limellate produce continued hours; Wing Semaphores seturned o FINLING STUIDED int wait (ints) HALLER CHILBRY 171 mex=1, but=0, empty=3, 2=0; 2 Deturn (--52) 102 maints 1n+ signal (in+s) oltum (++3); Thosa + Ul 1010 Long () rold beng () patient (1) (1800mes \n2. (one mess) mest = wait- (mest) (ull = Signal (bull)) empty - wait 1 empty) Pant ("In Enta your (Kosce")" pants ("Infoduces produces the item to" Scent 1 4.00, 2n1, Switch (n) Mex = signal (ment Cole 1: 16 ((mex == 1) (1 (empry == 0)) vois was ()/ (1008d pant ((suffer 15 full!) Mex = wystmon); hull = West (peut) -Cue 2: 16 (mex == 1) & (6411) = 4 empty = Signal (empty) porte (Tolorumes women Hen to 'ext) WHIMES () Mex-14 Signal Craex) DOTT (Byber Is ampty !

Oumer Walls a chandrow & where we write to 4 Diry - Ph Japhuigs 1. Produces 2 Consumos triclade < proved no Hirelade < samples 1) Fre you there 12 Bubble 11 copy 11 H deline NS # define The 3 Hadin HMP, 1 Hadin FATO Enter you choic ! Produce Prober the Hen 1 todobre cept (italia Enter your Choice 1" Helding Right (1+1) + N produce produce the same IN Phil (NJ = \$0.1 2 3.46 FILM YOUR Charas Positive positive the 14m 3 Sant mex! Em your Chair 12 Sent 3[N] LORUM CORUM JEM] VOID test (IN i) FULL GOOD Choice 3 16 (some file + may & for [leg =] + fat of Shucked WEAT) Steep (2) . parlosopher 1.0 takes 500 K TILL ON W NO 12 1 1 3

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FOIL THE GOSPIER L Senset Edner DEPTO - HARRIES in mains PANT (Philosophes 4.3 11 Hangsey In-111); Pthread t thread-12(N) Samples + (Poper) Sem- int (of mester (0,1) Sembort (PStill) 108 (100; ILN; 1+D Steep (1) Pthread - corate of the cod_10/1 NOLL, Oh Jusepher hora Putferk (int 1) dphuli] point (" Philosophes 7.) Is thinking in Senwait (forest State Lin. THKE Dain 7 (Philosophes "1.) putting fook 608 (1=0; ich; 1+1) (1. 1. o down In " 1+9; reft + 1, PMacent join (Macon - 10[1] , NULL) Prints ("Phylosophen 10 15 mining In" i+1). 4 tear (lest) 39m-post (forex) vois * prosphed (voio * nom) 1212- 1-0K (9/2 (cop (o)

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anib [07+= alic [[][y]) 6/17=1; in+ (14)= 1) foolieu; ien; i+4) 16(6117-07) 6 mg = 01 Prints ("The Gollowing system is not safe his) boxalc's

waite a 1 proyon to simulate clearlock detection #1 mlude (Stone h) State lat majer 1207 in+ 1, i, n, p, na; Int math U Int allow [707 FOT, Day Clotter] qual 10) ; Coll W, [:[] 6 print 6 ("Nory processes ") sunf (" 1. d", Bnp); print 6 1 Fata may Justovaies; 1. Samp (11.1.01), \$18); Por (1:0, 1,542) (17) PANTO (" In Porty cont & Dessource R 1.0" itily Scing (" + 3" folis); print 6 (" Enter a sepuret matrix "1: 400 (1 =0) SCAP 11+1 boljevij < nrijth 3cen ("1.0", 80cy [1][i])

Min+6 (" Enter the allocation matrix: ") 6-0(1=0) ichp ; i+1) 600 (j=0) j (n+ ; j++) scent ("10" falloc [i)[i]); (1+1 (20) Jenz jot) avail[j]= 8[j]: for (iso; renpit+) & 2 anoi [37 = alloc [17]] 600(1=0;1 < np; 1++) int wint = 01 har (j=0',j<n8',j++) 16/alloc [17/1]==0) COUNT ++; elle bacari in (count = = n 2) maric 110=35 JOS (J= U) JENS, J++ WLJJ: avalles); for (i=0; ilp; i+1) IN Congress = 0; 1) [marie [i] =1) ba (j=0', sent; j++)

Can to 083 = 12 OUTPUT: ele Enter no of processes 5 lenbe p 83 = 03 Enter ou may resources = 3 Total Amon , & Resource RI: 7 borak! Tow Amoun , 4 Resource R2.5 Total promoty Resource R3: 3 16 (condepos) Enter request matrix 216 202 002 106 010 mark[i] -T: bools=viix nojj+)
whil += alea li Thi Enter valuxation mutais. 213 020 302 111 000 Deadber descree int deadlock = 0: 1/20(1=0); LAP; 1+49 1/2 (maxic[1]1=1) dewlock =1: 16 (Operacis) print (" In Deaclock desector): eleo porint 6(" No peed of K possibu");

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www w/(n+ k1) int nh, 1+ 61, 111 n/ boog 1 1) dul; b6 1661:17=1; lul = 10000; 10+66 [mont] = 5041 in bory [mox], i, j, tp, hyn=0', Point (Infile no 1 t Filesize: It 600 (i=1) i = n6; i+1) BISCKNO. It BISCK SIZE I E 600 (j=1; j (> Db) j++) Flogment ") 16(6(1)]1-1) 600 (i=1) i = n6 . &466 15] 1=0; i++) 1emp= 1157-6/11/ 16 (temp> = 0 did hypest " + temp) Wint 6 (" In 70 1 tit 10 1 tit -10 1 tit 7.0 It t / 2 ", 1, 617, 66/17, 6617=11 bl661177, 620y (17): hyhi top from lit- hgh. output. bb [66 1,7] = 1 hgh= 6) Fred de Fater to noy block (1) pl (in + 1), in nh , int (17, in n6) ENIR NO & processes 8 Enter block usige int b6/mos 1.000 503 100 500 200 300 600 in+ 66 (mone 7. 903) Enter the paxers size 10+ 6 wy [mon], is, 1p, tw/ = 100 00; 212 315 63 124 23 89 73 13 1. FIA+ - FI too (1-1; ic= 06; 1+1) 2. Begg-FA 600 (j: 1; j 2= /nb; j+4) 7. Wordt Fix 16 (6615] 1-1) Enta you work Poaces No. Pouces A size Block size 6611 J-J; to le tps 411

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Phil- 99972 Word void disply fout (n+() in 15 Hit (int data) Writh (" In Toke no & Prage + aut 1: 1. d') · pg 6 aw (tent); hit=0 600 (j=0) seb; s++1) VOW 6160() 16 (P1) == data) 2 hit=15 getdatal 1? bear: 'yeurn hit! initialize() 108 (i=0; ien; i++) Mints (" For yed " inti 7/7 11 th get this Index (in+ data) 16 (15/tit (10 Fit ==0) int hit inu; 100 (K=0, K<6-1, K+1). 600(10=0;1016;10++) PIKT - PIRTI 16 (P(k7== quta) hitind=k; Pgfawlt(n++; botals 2 disp Pages (2) actuan hit indi VIOVOID DISPARES · Oup Pg faw + Cort(); VOID ophinally 16(PIEJ1-1999) wint ("Y ", plas) initialize 0 int news (50); 600 (1=0;1'cn') (1+1)

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S LOW ROY Inhalize (): 11+ (Cast [10]) poli=0,1(n;1+4) Panto("Infort to" "infil. 76 (11 HI+ ()All] == 0) BOD (K=1-1, K7=0, K--) 16 (Pg == 1011c]) : CeasiFil- K ound . Guynd perac 604N =0, " · 3 16(16 and) least 1 1 1- 9999. int min = 9499 int againdexe: Pos(2=0, 1(00; 1+4) 16/ (eas+[)] (min) min = leas + []? xpinden = j) Plapinder] = Inli] Pyfawt Cot+++: Orsprages (5 ele

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Roye Replacement Algorithms Fual: 1 B02'12 EAR date Fra 3:12 7 Foo 4:423 Optimal Fo 1 473 IRU F82: 412 Ents your choice : 3 FODS: 512 Fool: No pay faws Fix) No pag bout Fuel: 1 For 3. 317° F002 12 F04: 342 For 5: 3451 - 14. F083:123 Fo 91 129 For My Page fauts: 10 FOR 1: No pays bowl Fool: No pay bound Pa seplacerer Algoritm H) Firk Date Optimal . FUDI: No Page faut Fooz : No Page Schul F87: 325 LRU For 4' 427 Enit FUES, No page bound Enter your choice: 5 Total No of Page boot : 7 Pay Replacer Algorithm Enter data FIFO Optima LES Enit THE your choice 4

Wante a Crowyden to simulate Olive schooled FEFS 0 HERCLURE & Strippin Hirama (Shills n) Int main () int ROPTION, i, n, Total Head Mament = 0, ini ; prints (" Free the ring requests \n"); Scent (" +.)", &n); point (" Enter to requests degreens (n"). has lied ich; hit and a xmb("to", 480171). print (Takes minal hear position ") scent (" +0" fini); bo (i=o i<n;i++) THME THM + GAS(RQCIT- Ini); in = 2011: prints (Total New oscensment is 1.0", THM); yeurn 3

Ena no of signests & Forth the Baymest Seguence 98 133 37 122 14 123 65 67 Enter him hew yourner 53 Total head moment 1, 640 thelewo 25towns # nelius < Stollbas I'm mal, 211 RC /10-1, 1, J.A, THM =0, ma 121, Sije, me; points (" Enter the run of Requests In") Scent ("1-1-0", da). prints (" Fixe me fequers dequeris") 6008 (1=0; 1 2n; i++) sconflyou", fr ([[]); Doint (" Exter initial hear grapines An") Sconf (" 1.0" fini): Points ("Fate & Note disk size (n") Seon (" 4.0", \$5130) pany (" Enter the hear movement or suran Gir high Low for Low O Wil: Sunf (" 4.0", down) 600(1=01)(N; 12) 600 (j=0; j=n-j-7;j+d) 16 (RD [] 17 RD(j+1)

int Kapi

(6)

ROLLINI MAP

In Italea:

fore (i=0; 1 cn; j=1)

If (initial < R (0[5])

Indon 1;

buck;

TIJM = THM + AM (SIZE RODIC-17-1);

101 SIZE-1)

[02 (12 index +1; is = 0; i=)

THM: THM+ CLAS (RED [i]-Iniha);

10 inhal = RED [T].

elle

100 (1- maex - 1; 130; 1-1 THM: THM + GAS (ROLIFIJ-0);

THM THM 7 abs (RQ[i+1]=0);

6 - R + (1) (10 P 1 - 10) (10 P 1 - 10)

general (" THAN YS 1/03 THAN)S

OUTPUT

Fine no of sequence !

Fine to sequence !

91 183 31 122 14 124 6567

Finter initial hear pusher

53

Fines to be edit size! 99.

Enter the how mount distratifies !

1 for be 0

TOTAL RED MAYORA 5236

include (stopps)

H include (stopps)

1st mainly

proff (" Fater me of ocquests Sequence In");

foolier, i ca) is?

March 10 (" Fater me of ocquests Sequence In");

print (" Frie into new posinon in");
searly (" Frie into new posinon in");
searly (" Friend total Olle Sex In"),
Scarly (" "Ad", Knowe)",

6-2(1-0:12n-1-1;j+n) 16 (ROTST>RO [513] in leap! temp- Ple [] RO[j] = RO[j+1; NO Still Pemps int shelow; and a last boo(1=0, i< n; i++) 16 (ini < RQ | 57) incleasing ib (move == 1) ((ininuex; icn; i+) THM = THM + chs (RO[i]-ini). in = Raliti THM: THE Lans (Spe-RO [1-1]-1) THM - THM + abs (Spe-FO) INIOTO CHIEF OR for (in o) it inder jett) THME THM - I als (PO [17-191) Ini= ROTIT elee 100 (10 melox =1 3 is =0, 1-7) - THM= THM TODAL RO [17 - ini]. THM = 1- (1-0): toi : 5,36-1

10x (1-n-1: 1> == MEX 11--) THM , THM +abi (ROli) - mi) ini-Rolli point (" THM IS TID", THM) Dona, O. Curry Enter the runt of Liquest Fine on occur sequence 94 183 87 122 14 124 65 67 FAIR he inition theor you the Enter total Olik site Enter we have morned of for hish 1 por 1060 0 Well have point moveral 15 34335