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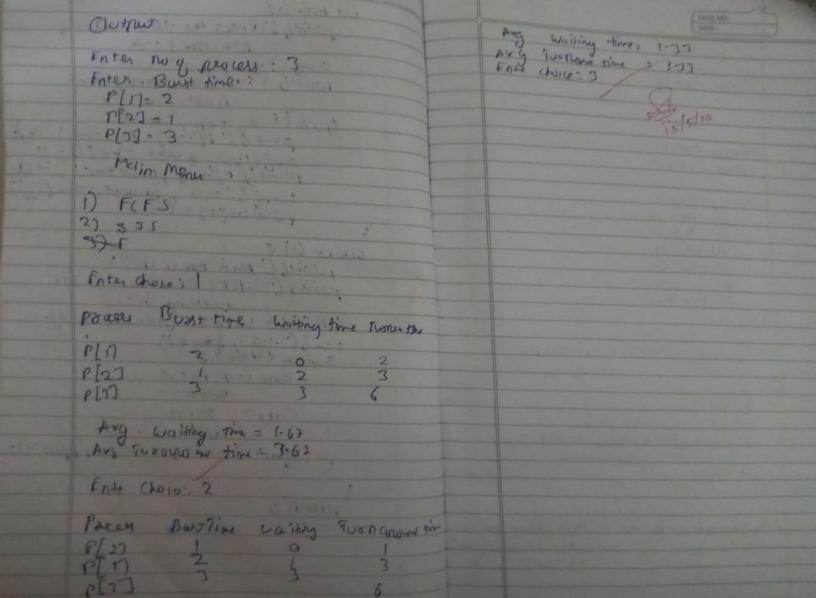
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16 (min_index /= 1) 5 in+ main (15 print (" Enter the total Number of wait sine [min-index] = custo time -No cosses :"), As time [min Dring (" 1.0") and Assert The s Cust-time + - Bust time [min- index] Burst time "1" 608 (i=0. 1 (n; i+1) 81 Too are time [min inclose] = cur time ~ point & ("P[:10] Ass time: "it) Add time (min indos scopb (: 10: & Ass_time [i]; 1: + otd_waij time + - writing time I mis inclex total- are time +- Took- around time [min Mint 6"PL 1. UT, Burst time: " 1+1) Scap ("-1.0", &Burst: time [i]) Duces [i] = i+1 is wonder [min_index]=1; completely +3 while (1) & 3 in evening the city leaguest his Mints ("Main Menu In"); else s print ("). FEFS Scheduling in 2. SSF was time ++ . Mindb (Infinter your chaire: 1): Fire of general enister Scorb (". V.d", Schoule); wint be in processitit sound time it Care 1: FCFS(): Burst time It westing- direction, bacuk: Tur. asound + time [1]) Care?: 35F(1) bouc any - waiting time : (Blow) total woit time for clepent point of Friend pour" any Tren-are time - (blow) total trenary PUTIANO ("INIA Average Time = 1.26" Setwen o very any - wait - time; wrint ("In Avy Turnwoon time = 1/261 n's any from women - time}



600 (100 100 ; jen; j++)d Proony scheduling total. partil bus time twilit Hireline (SHION) Void Gird-avery time (Stovet parents, # nelvel < 3 tolib 12 in- w+ [w 7, +01/6], wow = 0 Strut proces & 10 +W - tot = 0. find to a nowerer time [pro p, and tot] 11+ but- 10. print 6 (" In Prover I O (+ Bures time (+ Paparty & Add Time Lewing 11 432 time Time It Turnaround Time ") int tur time -toke ut - toke ut + will total Lat - total pot + + 6- C17 pm+6 (1n+01+1+1+1)++ void find wait time from paroces proc 17 poulli bus -time parchi) po Int A Int will with the Lid): Dainth (In In Average wing The = +6 totli] = proc [i] bag time 1 (660) Pore -w+ 1/2 / w+LI-D; and to I'm Arrage Turnarone time 16 10', 601 L11, to L171. Wild fine to andone time () new paner pool? int n, nt with

Vois promy schooling (some parces pour Fata glosser In. 5 1/17 A) Enta hust him. 5 Ente Powerity grow process temps Fato Pouces III- 5 608 (int) = 1++ , jen ; i++)\$ Ente push time 5 Fate Un yoursely 5 il (pax 1) 1. p stoory < proclass; Bust him Por W7 Twon Time priorry 11 (partil prony= Procey JD procted J. powny B1 1 100 =11 temp : PROLLI Desce [] = Desc [[10]] Avy waitin time 6.4000 par rost pemps Any Two around time 2.40000 Fin vocay his (pour) Rolm Rom (Ron Par- emptire) Olyet #include STOLLON H include (Std bool h) int turnstime (int prog. [7, 1 n n, hi b+ [] tox my proces s Ense mo pures In=1 int with, in tat [7] Ent buni har & 3 Chrissian jun Firs & Manoring = 2 FATO 100 10. 2 +wlid tob life with Fora Bull time 3

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freezery the fort is but home, granting. t source of Par munotipic my Forlight Deadlight OV nut. tota to remper 9 pos 5 # include Enter greation time: 3 Freduce SStolio h) Enta pos: 7 # include < Stolib h) Enter BT = 4 # include < math b) Fater POS= 2 # Include < Stobool h) Fith DI= 3 Enter BEF 3 # define may pas 10 FATER BT=1 typoel ushing ? fits Pas= 4 Poten BT-5 17+ BT; Enter the Pas: 5 MOD Pri Enter the BT=2 3 Task: PRS BT WT TATING int humpes 11+ exerne [magny] nerws [marpres] remaine meripos), Cleudin/morphy. Jan di [manipoli); Void go Paringo (in solalgo) & point (" Fate Notw number of process (mariner 4.0) 1 (Manpar) 1 Scent (" 1 0", francimpos): 16 (num pro 21)

(10) (10) 1:0; 1 < DUMPSI ; 1+1) } print (" In Process y Jo" 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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int no ( 1600+) (n+ pow(2, 1, 0/n)-1):
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16 (util >m)
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sulkn (option) Schedulin Coul : Cold-px - info (intra) 00 01 02 03 04 05 06 07 08 05 Charation time get aby trop Cophan (1) # # State-monotonic (shienvalue, time) Desir-CNL 11 get px 1160 (opten) Ob L him - get - ob ! time (sotan) earliest-Ol-GA+ (26) Evation_ fire Que 3 exit (4) depart pointy (" Involo") CURROS! ought 1) Rose monustum (2 Parley + Resulte Fine Choice 2, Fire tom Amy pxxx3 Frewson How : 3 => Clydo. 5 = => Executor time => 1 => Ded 5 ==> Execution time=> 2 ==> CLEW=10

Cue 3 eni+(o) was I propose to limellate produce continued hours; Wing Semaphores seturned o HINLING 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 (men) 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) & (6ull 1= 0) 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 I 4 Diry - Ph Japhuigs 1. Produces 2 Consumos triclade < parent 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

Walle a (program & maste too concept Oumus 4 Drug - Philophoigs 1. Pyuluces 2 CONJUMOS to relate < proved to HINLIUSS < SANCYPHOKIA) For Form your Chare 2 Bubbo 11 copy !! to deline N5 # define The I Happy HNG I Enter you those ! produced valles the item ! + roll FATO todaline continuous Holding Right (1+1)+ N Enter your Chance T produce produce the 19m ! in Phil (NJ = 301234) Folh your thorse !] Problem produce me 1 4m 3 Sent mex! Sent SINJ 1 Erm your Choic 12 LONUM WHEN DEM] FIRE your choice 3 16 (some fil = +100 & f 3 mb [sep 1] + FAT A P Shouland 1/ EAT) - 60x 1. 1 000 13 10 11 19

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 Sanwait (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)

Waste a (persogram to sinuvate Bankon algorithm OUNIN for the purpose of deadlock consistence phlople 1 15 Thisas phil 2 is Thiring Phil 3 11 Thinking Hirelade (Staions Phil 4 13 Thinking int main () Phil 5 13 Thinking Poller later and College phil 1 11 thouse int n,m, 1 j,k; DHIL 2 13 1+cnggs Mariath (" Enter the Morocere rum: "); phil 3 11 Itry my Scent ("1.0", fr); Phil 4 5 1 Hargay poniat (" Ente me desources num: ") Phil 5 75 Hingry sunf ("-1.0", pm); Phil 1 taly book 1 gru 5 int alle [n][m] phil 1 1) cum point 6 ("Finte allowers maters"); phil 2 tou for I gray 600 (ico; i < n; i+1) phil & rave york 2 and 3. 600 (3'=0', jem; jas) Phil 3 13 cuting phot 4 toke bor 3 mos sunb("10", fall([1715]) Phil 4 3 eating PhJ 5 tukes 60010 4 gras 5 int mon [n] [m]; phil I I cating phil 1 11 putny for 5 on I down printly ("Enter the man matrix"); 600 (120)1 ch; i+1 Phil 2 15 putty 1 and 2 down boo (jos; jemina) Scanf ["-1-2", formers [] [5]); phil 211 thinking 2 and 3 down intaulberty phil 3 11 thisting 2 and 4 down Print (" Ententhe (Avaide Jiess Uster In) Lod Ciev, Ten; 1++ phil 5 is putting song down Sconbluto", for a inter [1] phil 5 11 thinking / DI

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polit 6 ("P 1.0 \n", one [n-1]); ((K)=0 int need [p][m] 600 (i=0) i < n ; i +1) retwon 0 (oo (j=o', iem; jt) need 6761, man li767 - allet 17657, arrive Ense the provides num: 5 10+ 4=0; Enk the dejouse nem: 3 600 (4co) 1 < n ; K++) 010 200302211 002 for (i => jien jitt Enly the MAX moders 16 (6117==0) 753 321902 22 2 433 int 61 ag = 0; Enter the available resources 600 (J=0; jem; H+) ib (new 175) > aulb [j]) 3 2 2 Following 15 the slage sequence: P1-> P3-> P4 -> P0 -> +2 16 (blog ==0) I am [hot] = i) 600 (300) yem; y++)
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 , g 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 7/i) 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 MOISIBU")

66(" h, no, 6, 6, 6)" - First ("+")

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Dovono

VOID 66 (int b1), int on, in+ (17, in+ 16)

int bilment for

bus (i=1;i2-n6;i+1)

600 (j=1;j2-n6;j+1)

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prints ("File-no: It File size: It Block no: It.

Block size: It Facyment"):

600 (1-1; 10-16; 1+1)

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6200 [1-1].

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= n6; 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 vord disply fow H(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)

points (whoop a rintil) is (shitting) - o) footjoe steb sho 1 1 63 = 6111. 111 /040 = 01 6007 10-17 10cm; 10+4) 16 (P8 == 10/KJ) near fil= k. (30cmd = 9) Bolak ! else. boundoo; 16 H (scros) Rear 1 ; 7 - 9919" in mon = 9999. Int repindent 602(J=0) J < 10; j++) 16 (near 67 > mox) : man - new (D) repitation !! PSGawt (n+++) duppoges () - L Dante (No bod forequi). O Up P3 Fruit Costs

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(1) (1) 16/ (eas+[)] (min) min = leas + []? xpinden = j) Plapinder] = Inli] Pyfawt Cot+++: Orsprages (5 ele

print (" No rage fairs") Ochur Merghw Ently Page Replocence Algorillon 1) FAR OUTE L) FJF Optimas IN MUNU LRU int counchoral Exis. FAK your Choice 2 while (1) First me pay sequence. 1234 12+ 12747 pany ("In Page Replacement Algo In Epts noy Brames: 3 1. Fater Octa in 2. FoFD in 3:0 prima thin 4 Foo 1:1 G. LRO INJ. BUIL IDENIL for 2: 12 you choicis Fo3:127 Scoop 1740' , achorel' F0274 139 Sister (Mare). For 2: 21/2 Cas 1 gor Rua 1) F00 5: 125 Course books for 2. No rage fault Cur opinal bearing with Cast tout 1 / hours For 5. M pgk bowt Total wy page fant: 9 dealow it: rottoms

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 decomment 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 1 211 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") Senf (" 4.0", \$5130) pany (" Enter the head 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

10) Holes: fore (1.0; 1.cn; 19.1) 16 (10) now (R.0(51)) Moon (1) Moon (1)

TIJM = THM + and (Size RODIE-17-1);

101 Size-1)

600 (10 index +1; 15 = 0; 1-)

THM: THM+ cubs (Red [i]-Iniha);

iniha) = Red [T].

elle

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

THM: THM 3 abs (RIDE 1-17-0)".

6-> (1-index; icn; is) 1+M. THM + abs (ROPIT-101): 101-24/11: g secons (") + 14 45 1/03 7+11 M)5

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91 183 3 + 122 14 124 6563

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Finter to by edisk size: 99.

Finter the how nownest didinal fee.

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Total news moreous \$236

include (#dison)

It include (1011h)

print (" Fater me or organists Seguent (n");

bool it ", i < n) ist.

Scanf (" -10", fleo [17];

bool it ", i < n) ist.

Scanf (" -10", fleo [17];

Print (" Fater inter new purinon Kr");

point (" Forton total One Sex In"), Scan (" to ", 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 | 17) 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 = 17 - TIM - + aAS (SINC - 1-0): toi : 5,36-1

10x (1-n-1: 1> == MEX 11--) THM , THM +abi (ROli) - mi) ini-Rolli point (" THM is +13", 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 30335