QIA
1) Problems / Draw backs / Himtletons.
If there is timesliking interripts are disabled in between the disable + enable interripts. This can cause some other processes that rely on interripts to not no Sleep (a) does nothing. O mg? (i) I work in multi-cpu.
Timeslicing + Swapping in and out processes on happen during the it statements before intempts over an happen. The
ill) TAS - atomic (Testing + Setting)
The TAS instruction, essentially books prevents other processes from handly the memory address while it's being accessed.
In code: (using artime) which uses THS => artimic < busis my_bool = for The place allog with my_bool => if (my_bool == FREE) { my_bool = 800 / my_bool = 800 / evide intempts;
else & 3 - 3 - Aby my-bast = FREE;
IN) Not some or to setting fly on / total Instructions? IN) Not some or to setting fly on / total Instructions? The Tas is trustee as being to incorporate both reading to writing. The Reads value of flag The Sets to 1 regardless The Sets to 1 rega
tamp

1) byobles bool full = folie, int & boffer) M+ tother, muter m; gemplore s; stry my-name) 11) appeline (story line, at size)? my-none = none; buffer = new int [size]; Vard word (vord * dab., int size) {

for (int l=0 / i (size, tti) {

s > word()! 3 3 3 -> Sylvel (7, m -> Sylvel (7) World reed (void & de int size) {

Cr (unt 1=0) / size: ++i) {

Sovertly; m > wort();

Solder et]

Solder et]

Solder et] 8-35yr101,m -> 575~1()) (int));

Coppeling ("exom", sze of (int));

Int mom () {

Chorx='x'; roll main 2 () { char x = 'x') thread fl [mon2); chorx='x'; while (1) {

get can write (" , szeoflin))

mylpe. write (" , szeoflin))

get get () ; L (x == ') brenk',

get get () ; L (x == ') brenk',

Thed > Code within a program that my independently. It can away

Active Of - A class / of theat when instantated, there are independent. an also access Some global period is insome process. It also has the own member variable, limeter, and a main that has authority after the constructor.

Synchronisation >> A concept to 'synchronize', intime, & Synchronization is used to make some vorses purellal running tasks one safe, are

Ey. Muler, semphore.

Coope is fine > Coronalarly is essentially the degree of pullelian that exists in a system. Crude, or coope is usually between splitting processes.

Fine is more towards thread splitting and parallely executing code.

However, fine may have communication - synchronization problems.

Pre-employe Schedly -> Pre-employed scheduling is to to essentially schedule three temperatures deciding time, torgraphed the hopen, breed on three you know such as deciding time, torgraphed the horce "pre-emptor"

(Memortal very intemps every (Red time (bek) for time sliving. 1) RMS > A type of scheduly to assyn tosks besiden them stored A higher price here given dood he, perod, and compute time. We schedule private of trap based on Shorted dead he which means highest privary, (inverse of trap) 3 3 14 5 1) (1) every 2 dys ldy 6

1 + 1 + 1 + 1.5 + 0.5 = 0.5 + 0.25 + 14 + 14

2 0.75 + 14

2 0.75 + 14

2 34 + 14

- 6 + 4/4 = 21 + 3

- 6 + 4/4 = 21 + 3 = \frac{3}{6} + \frac{4}{14} = \frac{21}{28} + \frac{3}{28} 21 > 100% 3) 4 1 $= \frac{3}{10} + \frac{3}{28} + \frac{2}{10} + \frac{5}{28} + \frac{2}{28} + \frac{2}{28} + \frac{2}{28} + \frac{2}{28} + \frac{2}{28} + \frac{1}{8}$ $= \frac{3}{10} + \frac{3}{28} + \frac{5}{28} + \frac{2}{28} + \frac{1}{8} + \frac{5}{10} + \frac{1}{28} + \frac{1}{32} + \frac{1}{32}$ Avadore > tryny not & have deedlock, (Resource request orders, going of resource)

prevents of freventsy from happenly by Ustry Banker's also. In the first place.

> moligations.

Ausdore:

- 1) Resource request ordering

 LA Acquire multiple rejources in Same street and

 LA need darigues to agree and be aware of other throads
- 2) Giving up resources

 Lo After a timeout, just give it up

 Lo Storvalon might still happen (it it give up a resource it about his

 the might not get any beek if some other thread against it.
- 3) Treat Multiple resources as one La Just one mutex for all resources. Consol regume individual resource, needs all even it doesn't need all or words first one. CA Needs throad Co-operation

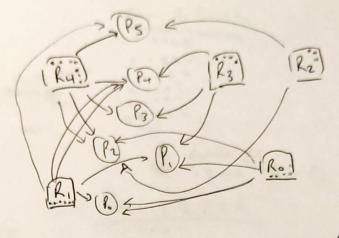
038(1)

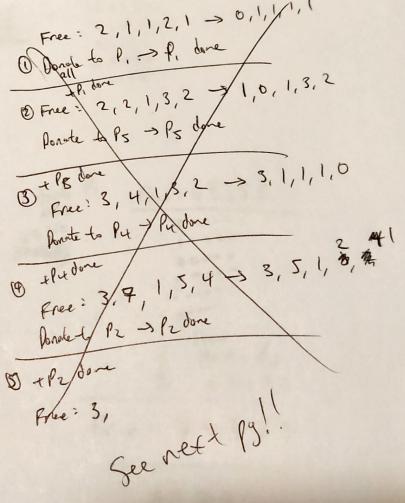
Bonker's Algo

Ru = 7 , R3 = 4, R2 = 3, R. = 6, Ra = 5

MAX ,	7 4 3 6 5 (564)
Ps	10110
Pu	11050
P3	11000
Pz	20101
P.	01011
Po	0 0 0 12
	53244

	Hendl +			
- P= I			0 0 0	
- P4	0	3	022	
P3	0	0	310	
- P2		0	0 2)	
_ P.	2	0	0 (0	
c Ps	1	0	232	





Free: 2, 1, 1, 2, 1 10110 Prec: 2, 2, 1,3,2 1 1 6 2 5 10110 1020 20101 donate 200 is 00012 free P. dande PS 12000 + free PS Free: 32242 Free: 32254 00000 11020 Proce Po 11000 11020 11000 20101 20 (01 مودور 00012 00000 free I donole Pz 02033 dougle P3 Free: 63355 Free: \$ 2355 tree 00000 00000 00310 11020 10000 11020 00000 11000 00000 00000 00000 00000 freet by 00000 103022 Free: 74375 All zero end

TORBILLITY STORY

QSA i) one wy may = uni + - One com one calls the other bi = two way my. L s two arm. Con cellocal = 3. Class 1 (> Class 2. mens clossif facture needs a assyn (3 closs 2) member function OR class 2 Meests a assign (class 2 4 ver) membréarder. ie. class 1 obj. assign (class 2 ptr), // closs2mentryt is a member var in class I. Insider assign (class 2# ptr) {

closs 2 member ptr = ptr;

ptr > closs 2 member ptr = this;
} // closs2 membroto is a membro me in class 2 1 -> Iterally first member var (sizy).

1 -> area for loop to instable land

n -> area of member var, such as member var [n]; and a for loop to instable land

where. M) 1 > Iterally first members (sizz). * > dynamic, using membrant and assigney membran = new ...; also need to delete memberar in destruction. believe types of a whole of " best of " by floor in building but can't had delete a thour or create a thour or of nowhere.

I enterprise of a whole of a stronger on garrents when you can also create to delete of the body with burlenghuman. Human an del t create as places. [beby K so (hum) (her)

