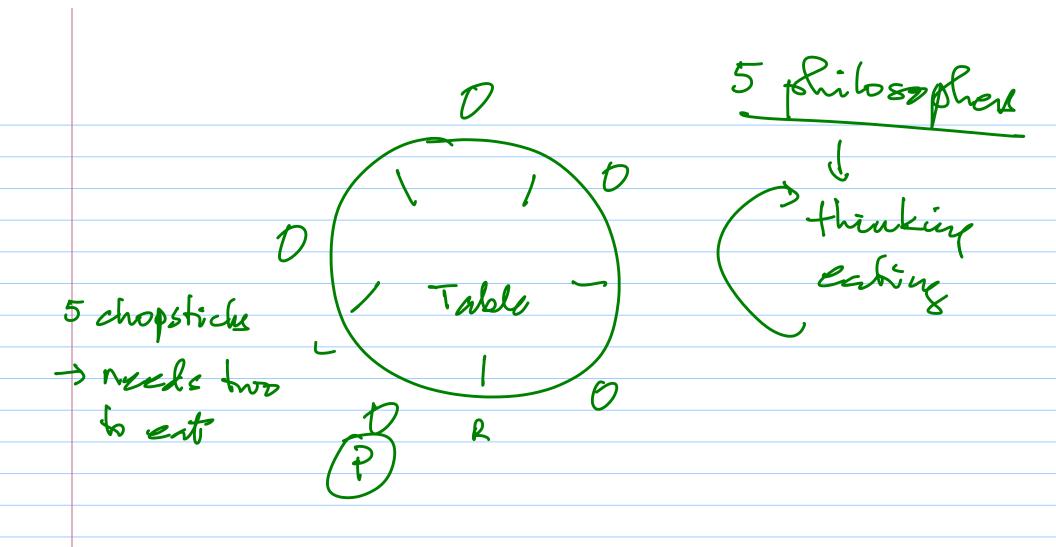
Class: 14 Date: 15 **CSE 330: Operating Systems** Fall 2016 Note Title , Readers 4 Writers Jiving Philosophers Resource Allocation Deadlock ...



philo [i] ~ → O ··· 4 -> putdown choptis

chopshix -s array of 5 scauplions init to 1

8=on t chp[5]

init chp[0-.4] to 1

Po picks up cho philo [i] P(chp [[i+1) %5]) ιĮ V (chp[(i+1)%5])

unt chp[4] = 1

1 rawil

0 rot

avail

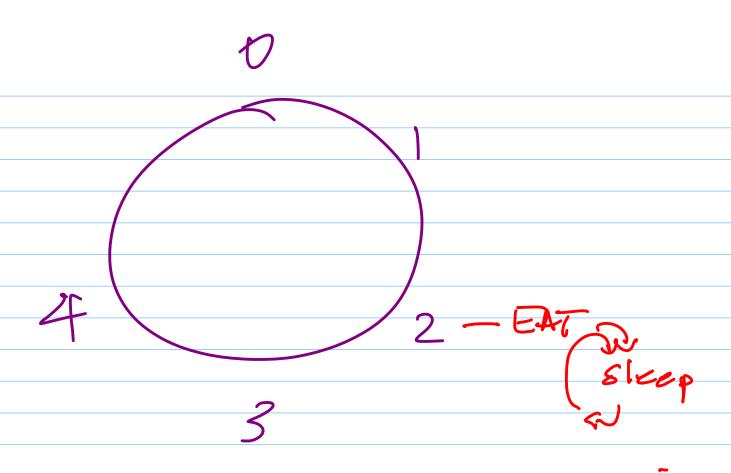
[while (ch[i]) e ch[i+i] ave not

or

chp[i] = 0; chp(i+i] = 0;

(mutes = 0) Self = 0 P (mutes) chp(i]==1) & 4 (chp[i+1) 1.6] ?(self[i]) chp[i+1]=0}

putdown for philosopher i P (mutex) ch[i]=1; ch[(i+1)1,5]=1;) ; V (Self (1+1) 65] V (motes) 2 self (i-6) % 5] 8elf ((i+4) % 5]



Readys - 00000 Currethouse 3 143 Thossal - yould ()

Sem_t -> struct & int val; void Init Sear (Sean, volue)

Seant int

Init Seur (Seur & Sear val = Value) & Value; }

P (Sear) (CB t & from; 3 Sem. val --; if (Sem val (=0) \$ 11 block from = Curr thread. (Sem. & Curr thread)
to > Curr thread = Del & (Ready &) Swapcontext (from? contest, Curr-thocal.)
Contest

V(Sem) if (Sem. val <=0) \$ Addg (Realy & J Delg (Sem.g) MON(TOR -> higher level

Sync | mulex

tool

> mutey

Conditions

"class"