	Boardexamples - critical sections, race conditions
	Doard examples - 211/12a1 500,00133
ON	
ex	jut balance = 50;
1	void withdraw (int amount) &
2	; f (balance > amount) {
3	cost 2x "appeared";
4	balance = amount;
5	3
	3
	2 threads start T1 withdraw 40 } 40+25=657500
	· T2 withdraw 25 5
,	sequence Balance Afler
	TI starts gets to 3 (past the Filter) 50
	TI preempted by T2 50
	T2 runs from 1 > 5
	TI switched back n -15
(race condition - when program out put depends
	race condition - when program out put depends on what gets done first.

race condition

	Pack Condition	·
ex.	jut global = 2;	execute dozeroll or
	booth	do NotZero()?
	void func) {	if O happens before
0	if (cylobal ==0)	do Zeroc);
	if (global ==0) do ZeroL);	if a happen; before O
	else,	do NotZero();
	do Not Zero();	
	3	how canyor tell?
		you cannot as written
	inf mana() {	
	thread myt (Pun);	you can however use
0	9/060/=01	condition variables to
	myticals	Synchronize Huse (laler)
	3	La dan and to send a mile
		PSA you may see code
	,	that "Fixes" this with
		delays (sleep-for(),
2		sleep until()) this is
		a cheesy non scalable solution. Do not do Mis

			100		
			4		
	critical section - an ar	rea of code where a	my		
		read can be at a to			
	Question: it you launch in				
	Auswer: No, but design	your app to be p.	erted		
	from single to multiple threads. That				
	is I dentity, mark, condense entiral sections				
	comment them but don't add sync-				
	honiqueton code (KAIs performence!)				
	ex.				
	ex. intgi=0;	where are critical	section(s)		
	void func) ?	if no thread			
	30++;	if fun just reads	sqi		
	3 .	if thread storted n	n (De (3)		
	int main() {				
0 Start	here > 1/ thrend +1 (fin)	·	+		
	int &=ge;				
	int $\nu=g\dot{c};$ $\hat{c}=\dot{c}+1;$				
	gi=i;				
(3)					
	tl. join();				
		3.65			