Name: COSC 6360 Quiz #3		(First name first)	Score: OCTOBER 26, 2009
	Closed book. You can have with you one	single-sided 81/2 by 11 shee	et of notes.
1.	<pre>When will the following CSP program terminate? (2×1 ch : char; count : integer; count *[count < 501; one ? ch → two ! cl a) When process one terminates.</pre>	:= 0; h];	
	b) When count becomes \geq 501.		

2. Consider a *two-ring* Totem system comprising rings A and B. Assuming that a given processor has received messages with the following timestamps from each ring:

Rings	Messages
Α	m(2h15), m(2h23)
В	m(2h10), m(2h25), m(2h30)

Which messages will be delivered by the processor if all messages are **agreed delivery messages**? (2×10 points and no partial credit)

The processor will deliver messages __m(2h15), m(2h23) _____ from ring A and

messages __ m(2h10) _____ from ring B.

3. How does BitTorrent enforce *fairness*? (20 points)

Peers penalizes peers that do not send them enough data by "choking" them, that is, refusing to upload data to them for ten seconds.

4. How does Kerberos implement password changes? (20 points)

Whenever there are more than one Kerberos servers, one of them can accept key change requests (<u>primary server</u>). To propagate these changes to the other servers, the primary server periodically sends to them an encrypted version of its current key list.

This means that users cannot change their passwords when the primary server is down: changing passwords is not a critical task.)

5. Under the best possible circumstances how many read operations can be executed in parallel

a)	By a RAID level 3 array with six disks? (10 points)	Answer: one
b)	By a RAID level 5 array with the same number of disks? (10 points)	Answer: _ six _

Explanation: In a RAID level 3 each read operation involves all the disks in the array.