HW #1

3.	msj 696
4.	a) a process sets "turn" to itself
	Suppose that process 0 sets want CS[0] = true and then sets turn = 0 instead of 1
	Then process I sets wontes[1] = true in onother thread
	Then process 0 evaluates (want CS[1] Ill turn == 1) to fakse and enters its critical section
	Then process I sets turn = 1 instead of 1, evaluates (wantes[0] let turn == 0) to false and enters its critical section
	Both processes are now in their critical sections, at the same time, breaking mutual exclusion
1	b) a process sets "turn" before setting "wantes"
	Suppose that process 0 sets turn = 1 instead of setting wants first
	Then process I sets turn = 0, sets wantcs[i] = true, evaluates (wantcs[o] 80 turn == 0) to false, and enters its critical section
	Then process 0 sets wont (S[6] = true, evaluates (want (S[1] & turn == 1) to false, and enters its entical section
	Both processes are now in their critical scottons at the same time, breaking mutual exclusion //

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5. Change int tum=1 to boolean tum[2] = Efalse, true}
    public void request CS (mt i) {
int j= 1-i;
         wontes[i] = true;
         boolean temp = turn[j];
        turn[i] = temp;
while (wortCS[j] && temp == turn[j]);
6. Consider the scenario where some processes po and
  P, start choosing numbers concurrently while all
    other numbers are still o
   Then p, reaches the number[i] ++ line when
   po finishes Its second iteration of the previous
   In this scenario, their numbers will be the same
   when they do the check to enter their critical
   sections
   Before po increments its number, p, does the check and enters its critical section, then po
   increments, checks, and enters its own critical
    section
  Both processes are in their critical sections at the same time, breaking mutual exclusion,
```