1. Text, letter

   Description automatically generated  
   a.

A piece of paper with writing

Description automatically generated with medium confidence

b.

A piece of paper with writing on it

Description automatically generatedc.

A piece of paper with writing on it

Description automatically generated

1. The three requirements of the critical-section problem are mutual exclusion is assured, progress is assured, and bounded waiting is assured. Dekker’s algorithm satisfies all three of these requirements. When Pi is entering its critical section flag[i] will be true and turn == i so the code for Pj will spin in the while loop and not allow Pj to enter its critical section until Pi is finished therefore **mutual exclusion is assured.** After Pi has finished its critical-section it will set turn to j and flag[i] to false. Then Pj can enter its critical section so **progress is assured.** Pj can enter its critical section after Pi has ran once so **bounded waiting is assured**.