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Question 6:
6.1.
Assume the current turn is 1.
A possible sequence that violate mutual exclusion is given below:
P0: blocked[0]:=true;
P0: while (turn != 0) -> true
P0: while (blocked[1]) -> false
P1: blocked[1]:=true;
P1: while (turn != 1) -> false
P1: <critical section> //P(1) goes into CS
P0: turn:=0;
P0: while (turn != 0) -> false
P0: <critical section> //P(0) goes into CS
6.2.
cust: semaphore (:= 0);
bus: semaphore (:= 0);
busReady: semaphore (:= 0);
busMutex: semaphore (:= 1);
procedure bus;
  wait(busMutex);
  signal(bus);
```

signal(bus);
wait(cust);
wait(cust);

signal(busReady); signal(busReady); signal(busMutex); drive around the park;

unload visitors;

}