```
Concureur Septons Peoper 3
                                         2000 TMR
     OS Formdations Paper 10
                                         Outline Solutini.pl0q8
a)(1) carpark: monitor
        expor ental), exit()
          count: integer := Ø
          notfull: unditini
      entu()
          if count > N then wait (notfull)
          (raise entry barrier)
         count:= count +1
      exit()
          count := count -1;
          signal (not full);
          ravie exit barrier
           spaces: semaphone := N
  a) (ii)
          enter ()
             (wait (spaces)
             raise entry barrier
           exit()
             (signal (spaus)
Louis exit barrier
   b) (1) semaphore implementation
                           if value > 0
then decrement value
else queue process
          there must be
           atomic
           operations
       build on TAS, CAS
Reads clear etc.
                           Inpual (sem)
                             if any process queued, free one pores
                              else inerement Sem
    (ii) need a month book, typically a sunaphone
        need a queue sir each condition variable.
        on wair (anditin) num course monta lock to be
        freed and proven ground. On signal (undeten)
        nun les calle exit before signalled pured.
```