7771 - y car both 201

LEENER - CONF (direction)?

if (direction = - 4): # NORTH

if (direction = - 4): # NORTH

NOON NORTH = NOON NORTH - 1

IDNY?

NOON NORTH = NOON NORTH

IDNY?

PEC! NOTIFY()

ITNY?

NOON SOUTH = NOON SOUTH - 1

ITNY?

If (NOON SOUTH = = 0):

PEC! NOTIFY()

ATNY?

NOON SOUTH = = 0):

PEC! NOTIFY()

ATNY?

NOON SOUTH - CON NOTIFY()

ATNY?

NOON SOUTH - CON NOTIFY()

CRE (manitor, direction):

manitor, wants enter-car (direction)

if (direction = - 1): #+ NORTH

peraciones para pasar on NORTH

che: #+ 800TH

peraciones para pasar on South

Mondor, leaves - as (direction)

percestian (manitor):

monitor. wants enter pedestrian ()
operciones perer pessor peatoù
monitor. lezwel-pedestrian ().

o teremos jecom titada la sequidad ya que en el inveriorse se comple que si una de las jrupos está pasando por el prente, el resto no lo base. Adensis aicho inverior hemos comprobado que se angle durante torla la grandición

```
PRICTICA 2
```

Hanvel Pallo Bejarous Golson:

```
Monitor _CP: (Ein incinición)

N ped: lut = 0

N car North: int = 0

N ped_ waity: int = 0

Near North_waity: int = 0

Mar Earth _ waity: int
```

El increant o:

```
The = 3 0 = uped vote contrapt vote was path =0) v

v uped - many voted =0 v uped =0) v

v uped =0 v uped =0 v uped =0) v

v uped =0 v uped =0 v uped =0) v

v uped =0 v uped =0 v uped =0) s
```

```
SINU ~ (four = 0)

SINU ~ (four = 0)

Ancer Meth - weithy = = 2) \( ((neasouth-weity = 5) \\

N ped - weithy = med - weithy - 1

N ped - weithy = med - weithy - 1

if then == 1:

if then == 1:

Then = 0 \( \text{turn} = 0 \)

SINU ~ (blurn = 0)

SINU ~ (blurn = 0)
```

```
leaves-pedestrion ():
     IINV " USED JO!
Ubey = whey - T
     12413
4,
     tum ==0 :
    45
        occeptath waity 1=0;
         Jan = Jan = 43
        now some - maily ! =0:
   else 27NV ~ turn = 23
          40W = -T
 ı
          5200 × form = -43
狄
    when =0:
     with - co . pority ()
     looth-cor ratify()
  1500 must a vazi
 wants enter - car (derection): It assection (0: NORTH
 3 INV x (turn = 1 v turn = 4 v turn = 2)?
     noth-car o wait ( (nped = = 0 ~ now buth = = 0) }

noth-car o wait ( (nped = = 0 ~ now buth = = 0) }
             ~ ((( near South - waithy c=5 ~ nped-waitry c=5) v
                 v tocn=1) ∨ toun ==-1))
      Nor North - waited = noar North - weither - 1
      if turn == -1:
            400 = 7
     in car North = n cox North +1 2200 , turn = 4 , ncar North >03
     32M x (turn = -1 v turn = 2)?
     n car south - waiting = now South - waiting +1
      4301 v (turn = -1 or burn = 21 v near south) - weiting 203
     south-or mait ( (used == 0 ~ uxer yath == 0)~
               M((near Morth waity = 5 ~ nped -waiting = 5) v
                  1 tern == 2) v (turn == -1))
   were forth-town =- 1/2 pour = 5/1 garth - monthly - T
   if turn == -1:
    1711 Jun = 53
   now Earth = noor Earth 41
    43HVA near South >01
```

```
A thear North + near South 70?
beaucy - our ( direction):
   if (direction = - 1): # NORTH roll
        USEN MOUTH = vox MOHH - T
       if (tum == 4);
           if (n cor both -waitry !=0):
          elit (n pect weity !=0)
            de: 17Nun tur =0 3
                 turn = -1
                  23NV n tum == 39
       if noor North = =0:
           South -cor . notify ()
            bed . notify()
        3 FNV3
    else with south , ...?
        U car south = Uou South - 7
        if turn == 2:
            if (nped-waity !=0).
            eff (n car Northwesty 1=0):
                tum = 1
            ele. Eur a humal 1
                 tum = -1
                 72NV 1 how = - 2]
      if (n car south ==0):
          north -our notify ()
       13Mped - notify
```

car (direction, maritar):

maritar, wants-over-or (direction)

if (direction == D: # North

operations for favor car North

also:

monitar, leaves - car (direction)

pedestrian (monitor):

monitor. vents_enter_pedestrian ()

operaciones pera para pocitar

monitor. (ecures_pedastrian()

« La sajonidad en este programa "ampliada" se comple ya que en el invaviante se especision nped > 0 -> (noce North = 0 \ n noor Couth = 0) 1 noor North > 0 -> (nped = 0 \ n noor South = 0) \ n noor Couth > 0 -> (nped = 0 \ n noor North = 0) \ se comple de descute toda la rejecución

Las pecitiones se encuentrem en el puente y dejan de tener su turno.

Ja sea porque cuando sobre uno de las porrores tray alqui codre esperando o perque el puente quedo libre, el turno perevia a ser del coche o al turno "rembo" (-1). Por la bento nunca trabaci nadire esperancia a que otro termine de esperar y par bento ho habrá dod lak.

el turno y como pasa de mos a otros: El turno torra los valores: √-1 → neutro

calener: $\int -1 \rightarrow newtro$ $0 \rightarrow peaton$ $1 \rightarrow cache North
<math>2 \rightarrow cache Sur$

Cuando el un perente (peatri o cadre) sale

se veritia e sique terriento el turno, si es así pasa
el turno a aquel propo que tenga al pir miembro esperanto,
si no boy nadre esperanto, el turno pasa a car -1 bashe que
perse el equiente parecente y lo cambar por el ruyo.

El camaro de turno trene prioridades así se verita que no
torpe namició. El peatri revisa prinero que no reya esperado
coches N y rep coches s, los coches N revisa prinero cales s
y bropo peatonos J. Analmente, los coches s revisam primero los peatre
y bropo la cadas N

- : zda vosificución

- 3th venticación.