

PARQUE

MAIN

```
create_MUTEX() ???  
create_FIFO()  
create_controller()  
fdw=open_FIFO(WR_ONLY)  
  
sleep(duration); // park is open  
  
// close park  
wait_MUTEX();  
write_FIFO(stop_vehicle)  
close_FIFO(fdw);  
wait_for_controller_end()  
signal_MUTEX()  
  
destroy_FIFO()  
...
```

CONTROLLER – N-S-E-W

```
fdr=open_FIFO(RD_ONLY);  
while (FIFO_is_not_is_closed) {  
    read_vehicle(vehicle);  
    if (vehicle==stop_vehicle)  
        closed = true;  
    else  
        create_car_assistant()  
}  
close_FIFO(fdr);  
...
```

CAR-ASSISTANT

...

CAR-ASSISTANT

...

FIFO

03 04 05 SV

SV – stop vehicle

ANS_FIFO_03

...

ANS_FIFO_05

GERADOR

MAIN

```
create_MUTEX() ???  
while (t < duration) {  
    create_vehicle(vehicle)  
    create_vehicle_tracker(vehicle)  
}  
...
```

VEHICLE TRACKER

```
wait_MUTEX()  
fd=open_FIFO( WR_ONLY+NON_B);  
if (FIFO_is_open_for_reading) {  
    write_FIFO(vehicle);  
    close_FIFO(fd);  
}  
signal_MUTEX()  
...
```

VEHICLE TRACKER

...