

Invariant

The function is `can_enter` that uses the condition `ok_to_go`. It becomes true when the direction of the car that wants to enter is for example SOUTH, and the counter of numbers of cars going NORTH is 0. Then the car can enter. The two counters (`inside_north` and `inside_south`) get one more value after this condition is checked. So the `can_enter` function does not change any values, and checks variables that only are allowed to change when a car has entered.