

Supplemental Material for “Parallel parking vehicle alignment strategies”

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Algorithm 1 The vehicle parking algorithm

```
strategy ← middle
blocklength ← 10
timestep ← 0
for timestep ≤ stoptime do
  spotlist ← array of lengths of all available spaces
  vehlen ← randnorm(5,2)
  if vehlen ≥ spot for all spots in spotlist then
    Remove a vehicle at random
  end if
  if any vehlen ≤ spot for any spot in spotlist then
    Randomly select one of the available spots
    Assign veh location in the spot following the prescribed strategy
    for all veh in spots do
      totvehlen =  $\sum$  of vehlen
    end for
    density = totvehlen/blocklength
    timestep ++
  end if
end for
```
