
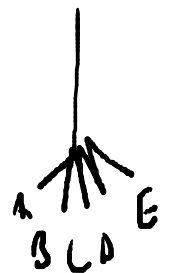


Passenger 1:  \rightarrow 4 possible locatⁿ in the park

 \rightarrow 5 possible locatⁿ in the car.

$$\hookrightarrow \underline{5 \times 4}$$

states: Current location of taxi in the grid: 25 possible locations

Current place in the car: 5 possible seats

Desired destination: 4 possible location of the passenger

state space: $25 \times 5 \times 4 = 500$ possible states