





Multi-Agent Pickup and Delivery^[Li+AAI-20] (MAPD)

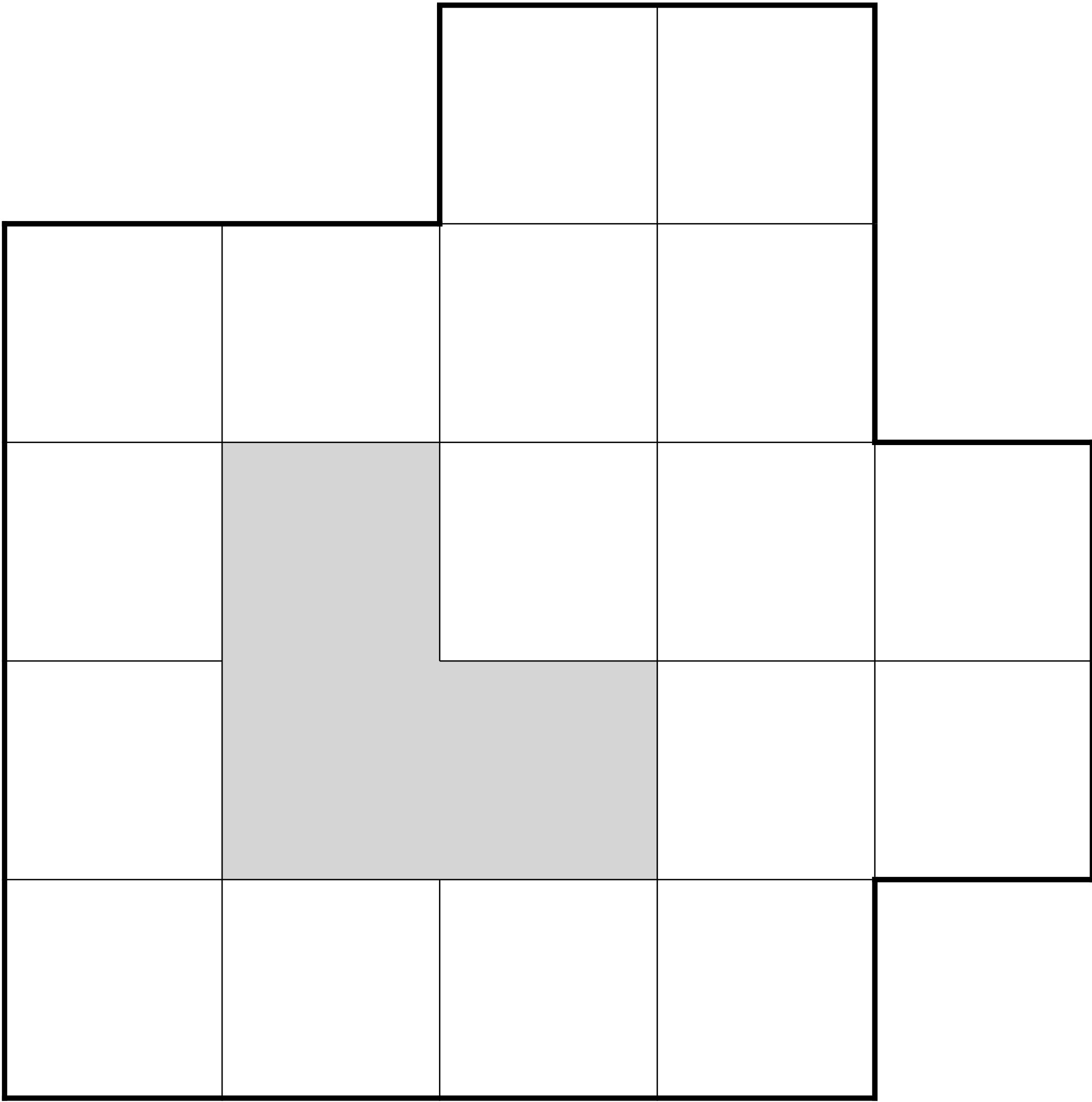
Differences with respect to MAPF

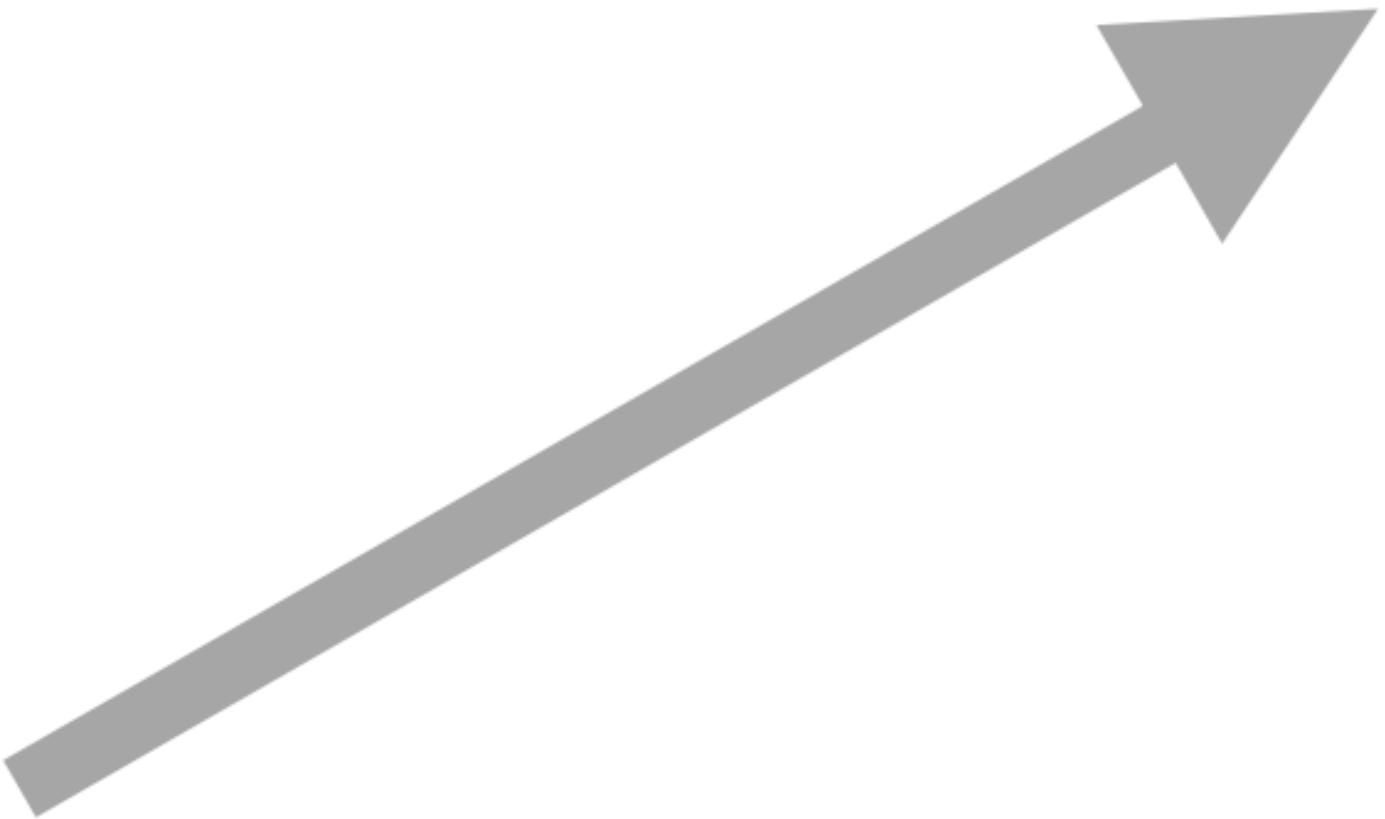
Input

- sequence of goals for each agent
e.g. for agent i with m goals:
 $\{\blacksquare_{i1}, \blacksquare_{i2}, \dots, \blacksquare_{im}\}$

Constraint

- Online (not all tasks are initially known)



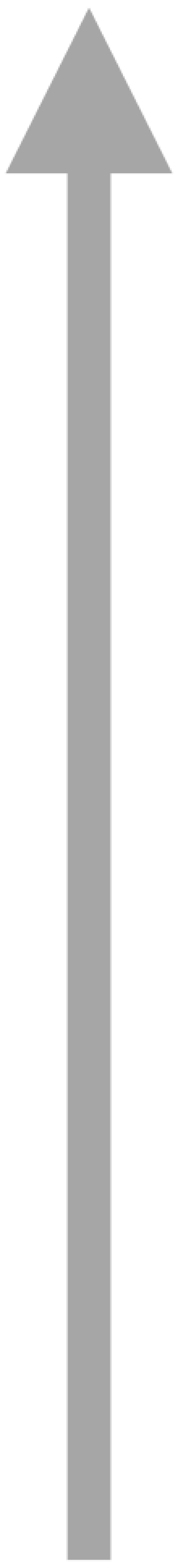


3

1



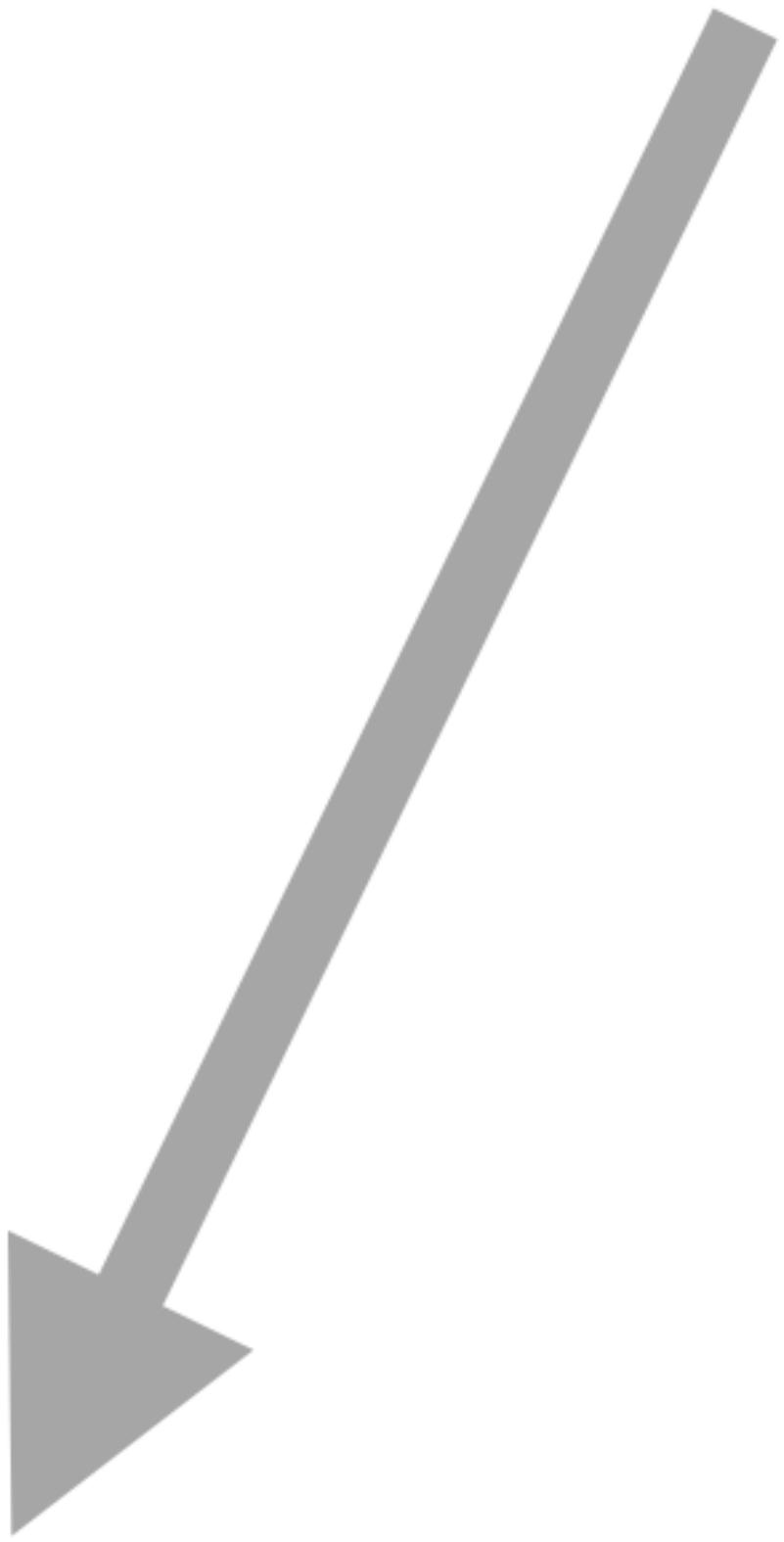
2

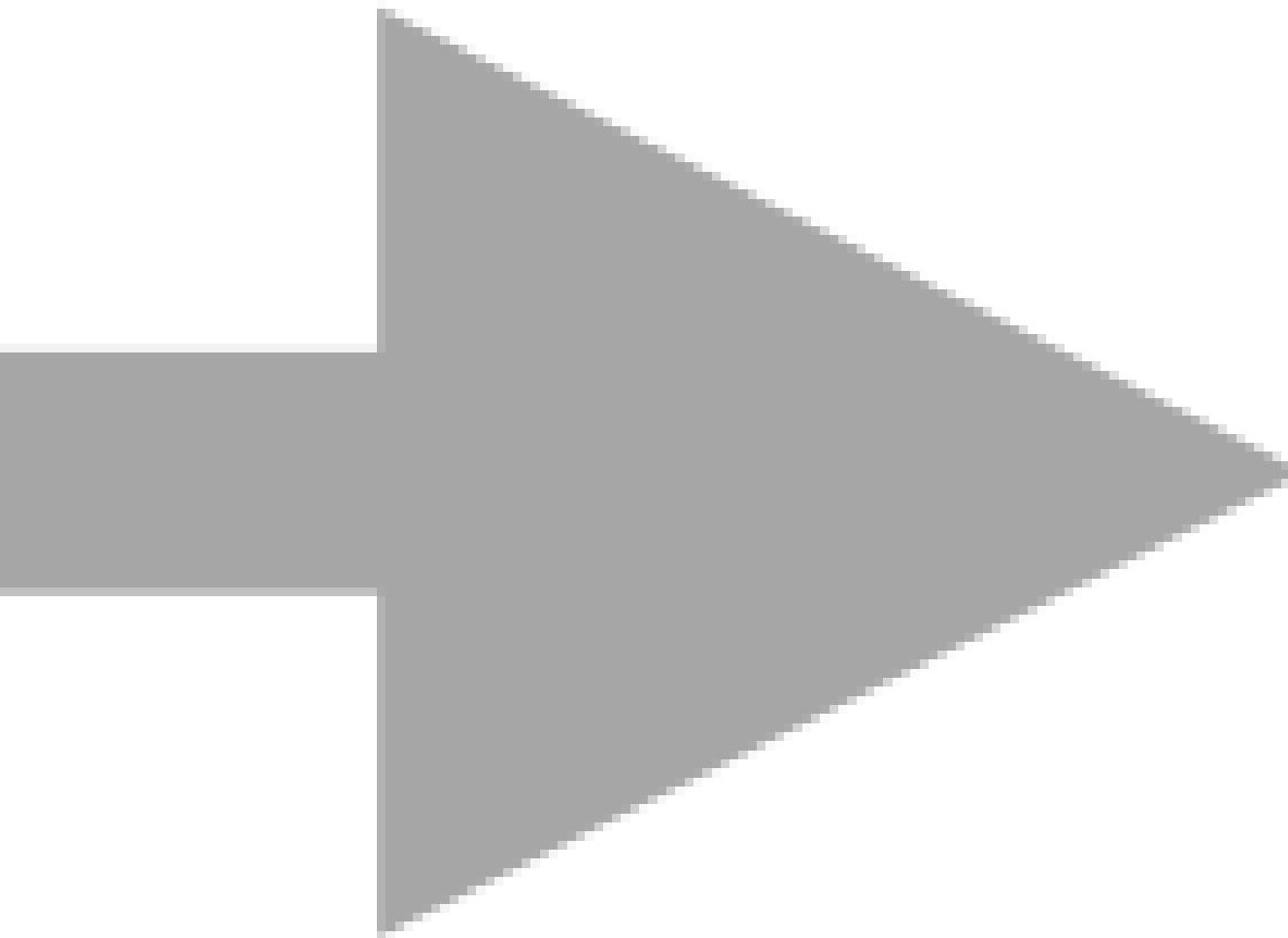
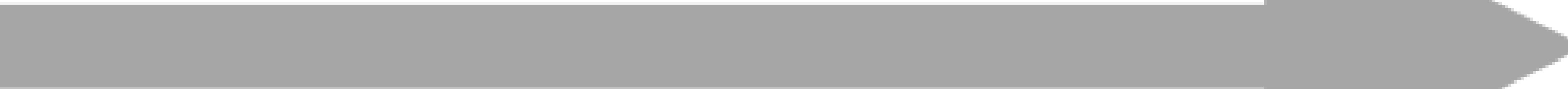


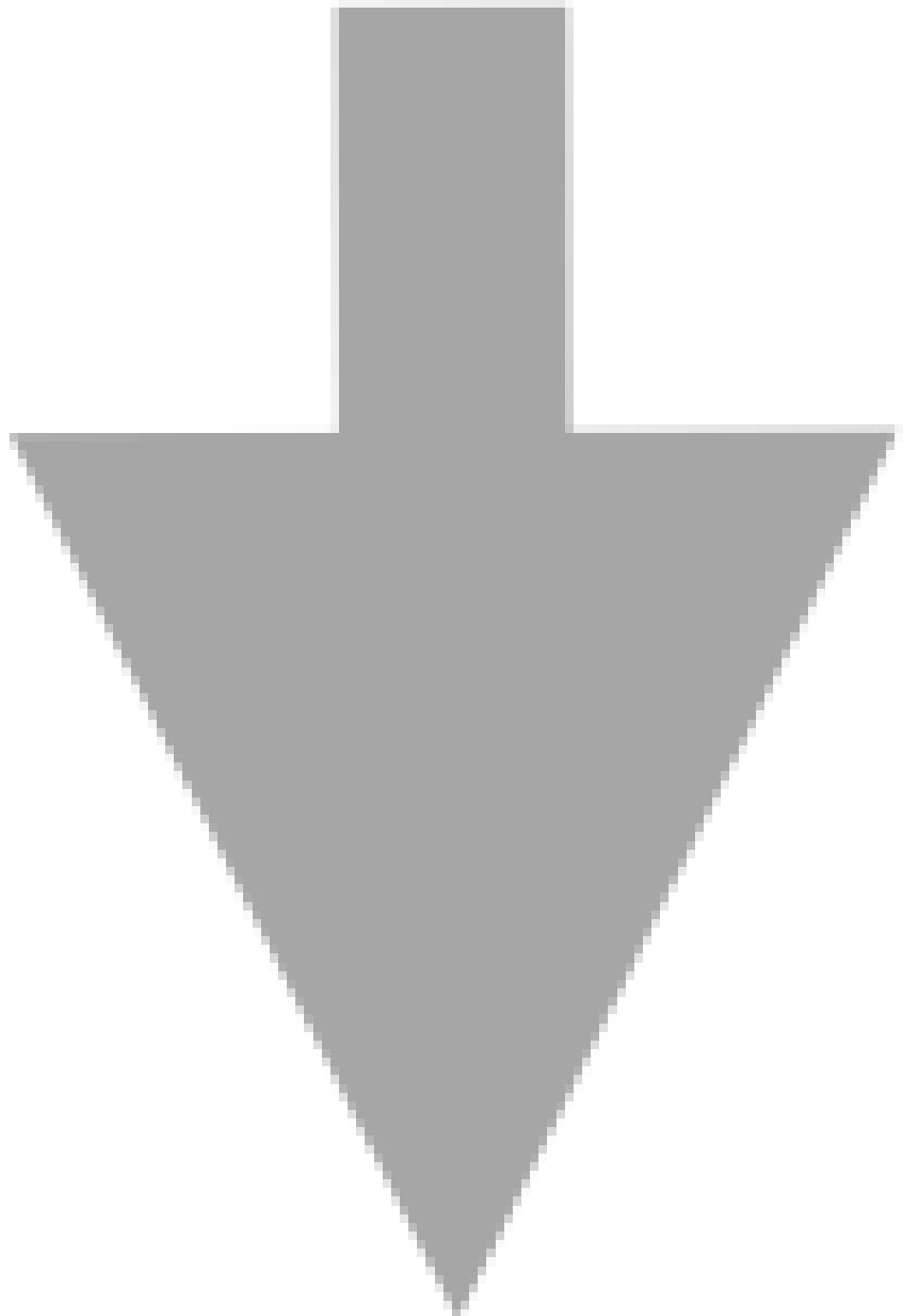
1

2

4







1

2

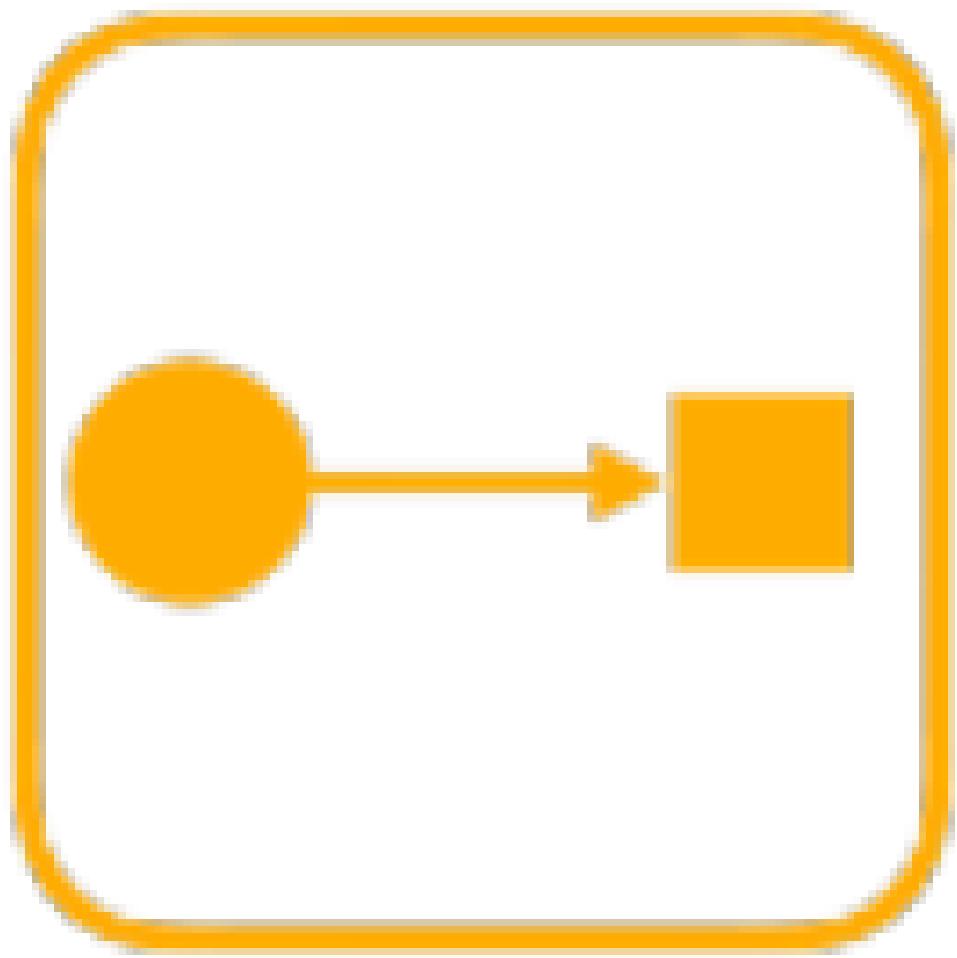
1

2

3

4



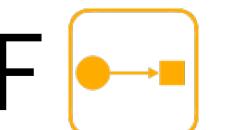


Multi-Agent Pickup and Delivery [Li+ AAAI-20]

(MAPD)



Differences with respect to MAPF

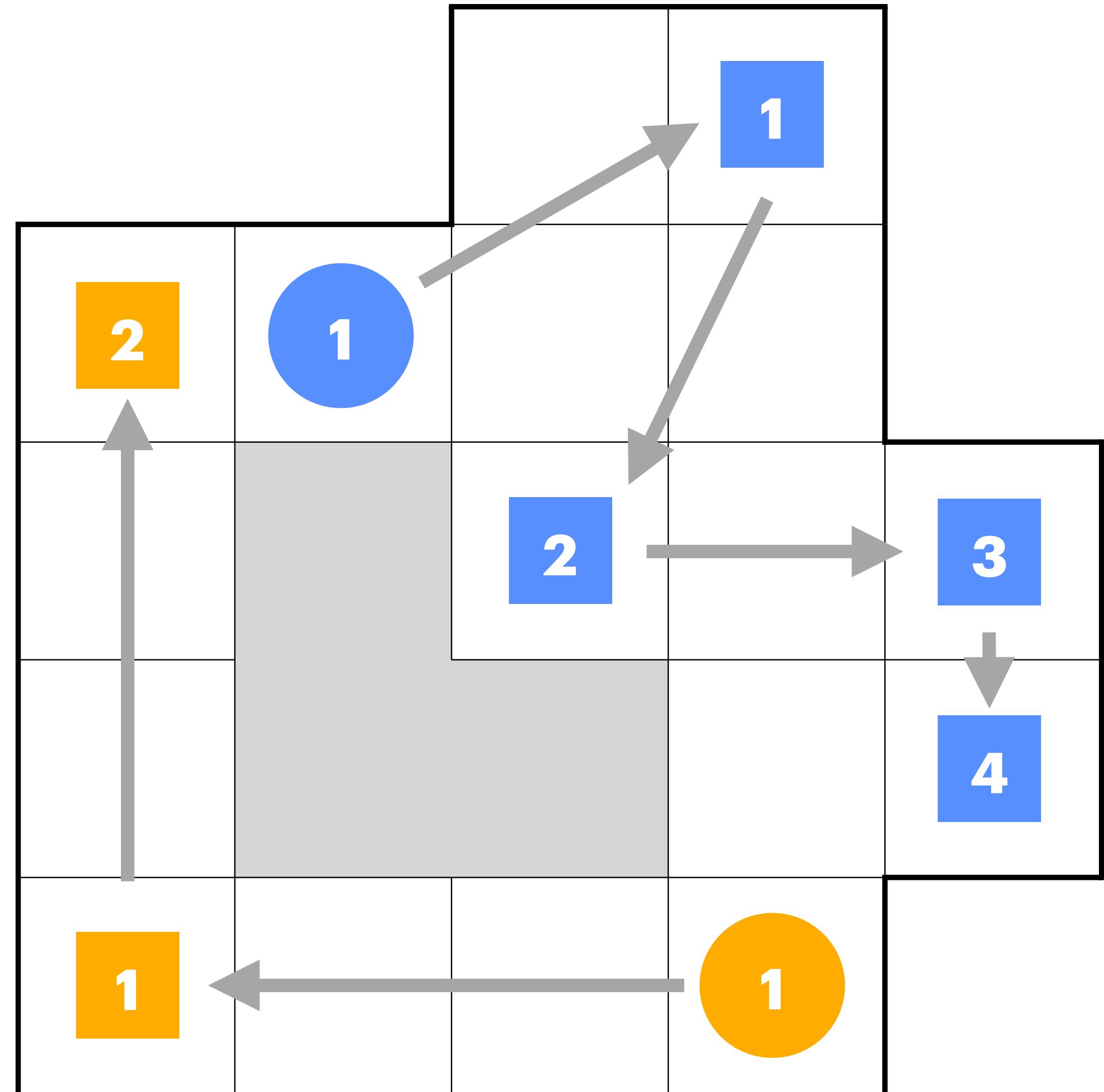


Input

- sequence of goals for each agent
e.g. for agent i with m goals:
 $\{\blacksquare_{i1}, \blacksquare_{i2}, \dots, \blacksquare_{im}\}$

Constraint

- Online (not all tasks are initially known)



MAPF / MAPD Conflicts [Stern+ SoCS-19]