Protocol for part_a_scenario_2

1. About the scenario:

In the second scenario we increase the number of agents to three. Two of them don't have task nr. 0 in their preferences, so they should not bid for that task as well as get contracted for it. Furthermore agents are no more equal in their parameters. Agent nr. 2 is able to move more fields in one move and has also bigger capacity, which should help him offer better bids even for tasks placed further away.

This scenario tests the ability of our impementation to simulate correct bidding between more than one agent for multiple tasks. It also shows the influence of agent's parameters on the bidding process (ability to offer better/lower values).
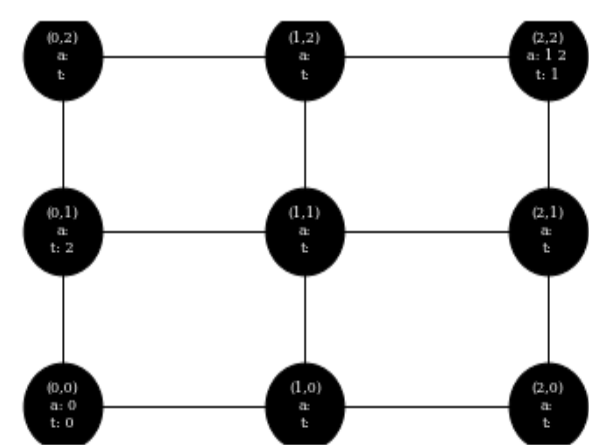
2. Tasks used in the scenario:

id	time	target position
0	0	(0, 0)
1	0	(2, 2)
2	0	(1, 0)

3.Agents used in the scenario:

id	position	preferences	capacity	rest time	speed
0	(0, 0)	[1, 2]	3	1	1
1	(2, 2)	[2, 1, 0]	3	1	1
2	(2, 2)	[2, 1]	4	1	2

4. grid world used in the scenario:

5. Actual results:

Step	Task	Agent nr. 0 offers:	Agent nr. 1 offers:	Agent nr. 2 offers:
0	0	inf	13	inf
0	1	5	7	3
0	2	9	3	2
1	0	inf	13	inf
1	1	5	0	3
1	2	1	3	2
2	0	inf	13	inf
2	1	5	7	3
2	2	9	3	2
3	0	inf	13	inf
3	1	5	7	3
3	2	9	3	2
4	0	inf	13	inf
4	1	5	7	3
4	2	9	3	2

Task nr 0 contracted to: Agent nr 1
Task nr 1 contracted to: Agent nr 2
Task nr 2 contracted to: Agent nr 2