```
After kernelUpdate kernel argument settings.
  INFO | After kernelUpdate kernel enqueue.
 INFO ] After clFinish.
gent 0's current position = (45.538387,46.431271) at time 7.799999 - Goal at (-51.000000, -52.000000) - Velocity = (-0.700209, -0.713938)
gent 1's current position = (-55.446392,50.000000) at time 7.799999 - Goal at (50.000000, -50.000000) - Velocity = (<u>-0.689543, 0.000000)</u>
gent 2's current position = (-44.484581,-44.484581) at time 7.799999 - Goal at (50.000000, 50.000000)
                                                                                                                                                                      Velocity = (0.707107, 0.707107)
gent 3's current position = (55.446392,-50.000000) at time 7.799999 - Goal at (-50.000000, 50.000000)
                                                                                                                                                                   - Velocity = (0.689543, 0.000000)
gent 4's current position = (45.539749,56.701942) at time 7.799999 - Goal at (-61.000000, -52.000000) - Velocity = (-0.699968, -0.714174)
gent 5's current position = (-55.190376,60.000000) at time 7.799999 - Goal at (60.000000, -50.000000)
                                                                                                                                                                   - Velocity = (-0.691929, 0.000000)
gent 6's current position = (-44.490807,-54.746620) at time 7.799999 - Goal at (60.000000, 50.000000) - Velocity = (0.706242, 0.707971)
gent 7's current position = (55.190376,-60.000000) at time 7.799999 - Goal at (-60.000000, 50.000000)
                                                                                                                                                                   - Velocity = (0.691929, 0.000000)
egent 8's current position = (45.537399,66.820045) at time 7.799999 - Goal at (-71.000000, -52.000000)
                                                                                                                                                                   - Velocity = (-0.700216, -0.713931)
Agent 9's current position = (-55.195042,70.000000) at time 7.799999 - Goal at (70.000000, -50.000000) -
Agent 10's current position = (-44.492481,-64.857643) at time 7.799999 - Goal at (70.000000, 50.000000)
                                                                                                                                                                    - Velocity = (-0.693169, 0.000000)
                                                                                                                                                                     - Velocity = (0.705980, 0.708232)
Gent 11's current position = (55.195042,-70.000000) at time 7.799999 - Goal at (-70.000000, 50.000000)
                                                                                                                                                                        Velocity = (0.693169, 0.000000)
gent 12's current position = (45.533409,76.823402) at time 7.799999 - Goal at (-81.000000, -52.000000)
                                                                                                                                                                        Velocity = (-0.700737, -0.713419)
Agent 13's current position = (-55.199013,80.000000) at time 7.799999 - Goal at (80.000000, -50.000000) - Velocity = (-0.694222, 0.0000000 Agent 14's current position = (-44.491859,-74.858231) at time 7.799999 - Goal at (80.000000, 50.000000) - Velocity = (0.706067, 0.708145) Agent 15's current position = (55.199013,-80.000000) at time 7.799999 - Goal at (-80.000000, 50.000000) - Velocity = (0.694222, 0.0000000)
                                                                                                                                                                     - Velocity = (-0.694222, 0.000000)
      Velocity = (-0.700209, -0.713938

Velocity = (0.707107, -0.707107)

Velocity = (0.707107, 0.707107)

Velocity = (-0.707107, 0.707107)
                                                                                                                                                  -50.000000
                                                                                                                                                    50.0000000
                                                                                                                                                                        Velocity = (-0.70/10/, 0.70/10/)

Velocity = (0.706242, -0.707971)

Velocity = (0.706242, 0.707971)

Velocity = (-0.706242, 0.707971)

Velocity = (-0.706242, 0.707971)

Velocity = (-0.706246, 0.707971)
                                                                                                                                                                       Velocity = (0.705980, 0.708232)

- Velocity = (0.705980, 0.708232)

- Velocity = (-0.705980, 0.708232)

- Velocity = (-0.705980, 0.708232)

- Velocity = (-0.700737, -0.71341)
                                                                                                                                                                         Velocity = (-0.705980, 0.708232)

Velocity = (-0.706737, -0.713419)

Velocity = (0.706067, -0.708145)

Velocity = (0.706067, 0.708145)

Velocity = (-0.706067, 0.708145)

Velocity = (-0.701185 -0.701185)
                                                                                                                                                  -52.000000)
-50.000000)
                                                                                                                                                                                            (0.706142, -0.708071)
(0.706142, 0.708071)
(0.706142, 0.708071)
(-0.706142, 0.708071)
= (-0.701575, -0.712596)
                                              (-44.491367,84.858734) at time 7.799999 - Goal at (-44.491367,-84.858734) at time 7.799999 - Goal at (44.491367,-84.858734) at time 7.799999 - Goal at (45.526985,96.828857) at time 7.799999 - Goal at (45.526985,96.828857)
       17's current position = 18's current position =
                                                                                                                                                                          Velocity =
Velocity =
                             position =
                            position = position =
                                                (-44.490875,94.859154) at time 7.799999 - Goal at (100.000
(-44.490875,-94.859154) at time 7.799999 - Goal at (100.00
                                                                                                                                                     -50.000000)
50.000000)
                                                                                                                                                                                              (0.706206, -0.708006)
(0.706206, 0.708006)
               current position = (44.490875, -94.859154) at time 7.799999 - Goal at (-100.000
```

Step 13 (top nalla, bottom emulated): Note that y velocity is 0 – could possibly due to the differing signs in the position/goal? Although this might be a coincidence as it is every other agent.

Frame 200 in both simulations. Nalla left, emulated right.

