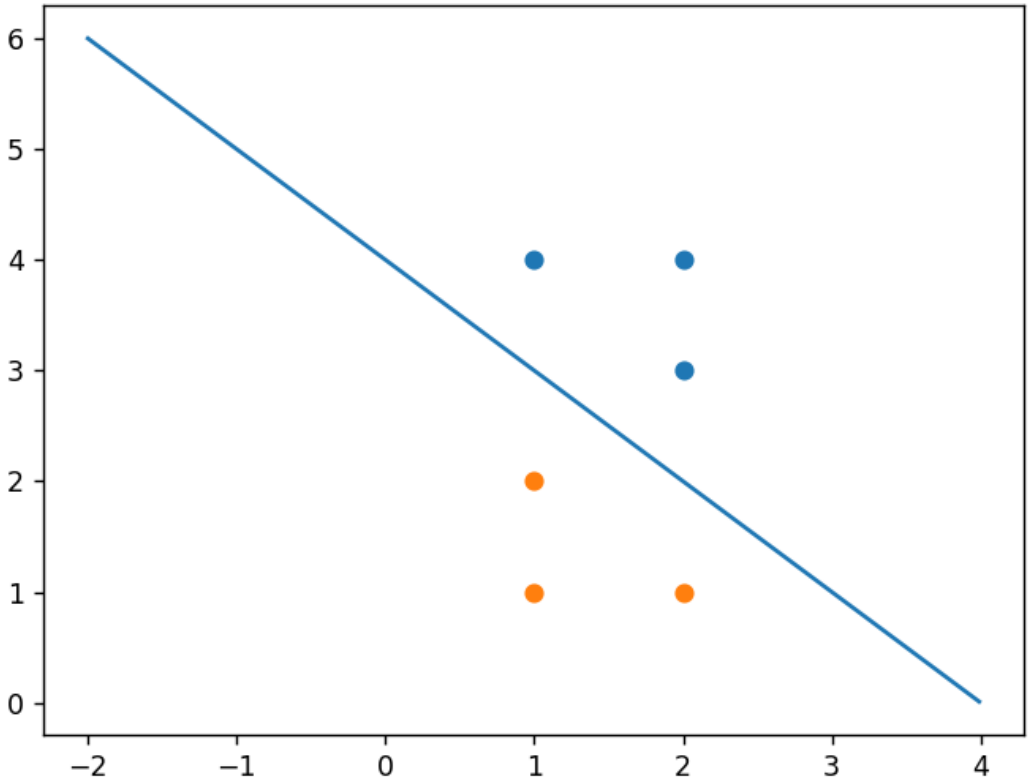


Program Outputs:

```
     pcost       dcost       gap    pres   dres
 0:  2.5000e-01  2.1908e+00  1e+01  2e+00  8e+00
 1:  1.6727e+00  6.8840e-01  1e+00  0e+00  8e-15
 2:  1.0290e+00  9.5474e-01  7e-02  6e-16  2e-15
 3:  1.0035e+00  9.9611e-01  7e-03  6e-16  9e-14
 4:  1.0005e+00  9.9950e-01  1e-03  6e-16  3e-13
 5:  1.0001e+00  9.9993e-01  1e-04  7e-16  8e-13
 6:  1.0000e+00  9.9999e-01  2e-05  9e-16  5e-12
 7:  1.0000e+00  1.0000e+00  3e-06  5e-16  1e-11
 8:  1.0000e+00  1.0000e+00  4e-07  7e-16  3e-11
Optimal solution found.
[0.99956445 1.00043556] -4.000435582252871
[[1. 1.]] [-4.]
Acc=1.0
     pcost       dcost       gap    pres   dres
 0:  1.3649e+00  1.0692e+01  2e+01  2e+00  7e-15
 1:  2.6278e+00  1.9345e+01  5e+00  1e+00  4e-15
 2:  1.1450e+01  8.7829e+01  1e+01  9e-01  5e-13
 3:  3.6791e+01  1.5502e+02  3e+01  8e-01  1e-12
 4:  1.3331e+02  2.4073e+02  5e+01  4e-01  2e-12
 5:  2.6601e+02  2.6947e+02  7e+00  2e-02  8e-12
 6:  2.7016e+02  2.7085e+02  1e+00  4e-03  6e-12
```

```
 7:  2.7094e+02  2.7091e+02  6e-02  5e-05  9e-13
 8:  2.7095e+02  2.7095e+02  6e-04  5e-07  1e-12
 9:  2.7095e+02  2.7095e+02  6e-06  5e-09  6e-13
Optimal solution found.
[0.01048007]
Acc=1.0
Passed
    pcost       dcost       gap    pres   dres
 0:  1.5736e+00  2.2918e+01  5e+01  2e+00  7e+00
 1:  8.3516e+00  2.6944e+01  2e+01  8e-01  3e+00
 2:  1.9760e+01  7.1053e+01  2e+01  7e-01  2e+00
 3:  6.0826e+01  1.0320e+02  3e+01  4e-01  1e+00
 4:  1.0932e+02  1.1454e+02  5e+00  5e-02  1e-01
 5:  1.1522e+02  1.1528e+02  6e-02  5e-04  2e-03
 6:  1.1529e+02  1.1529e+02  6e-04  5e-06  2e-05
 7:  1.1529e+02  1.1529e+02  6e-06  5e-08  2e-07
 8:  1.1529e+02  1.1529e+02  6e-08  5e-10  2e-09
Optimal solution found.
[0.00609625]
Acc=1.0
Passed
    pcost       dcost       gap    pres   dres
 0:  2.5637e-01  1.2186e+01  6e+01  3e+00  2e+01
 1:  6.3956e+00  1.8032e+01  3e+01  1e+00  1e+01
 2:  1.0205e+01  4.1557e+01  3e+01  1e+00  9e+00
 3:  3.8378e+01  1.0588e+02  3e+01  6e-01  5e+00
 4:  6.5786e+01  1.2114e+02  2e+01  4e-01  4e+00
 5:  1.3087e+02  1.2776e+02  7e+00  1e-02  1e-01
 6:  1.3139e+02  1.3136e+02  7e-02  1e-04  1e-03
 7:  1.3140e+02  1.3140e+02  7e-04  1e-06  1e-05
 8:  1.3140e+02  1.3140e+02  7e-06  1e-08  1e-07
 9:  1.3140e+02  1.3140e+02  7e-08  1e-10  1e-09
Optimal solution found.
[0.00216812]
Acc=1.0
Passed
    pcost       dcost       gap    pres   dres
 0:  1.2243e+00  2.5371e+01  5e+01  2e+00  1e+01
 1:  5.6078e+00  2.8859e+01  3e+01  1e+00  8e+00
 2:  1.4253e+01  9.5423e+01  3e+01  9e-01  6e+00
 3:  5.9257e+01  2.1685e+02  7e+01  7e-01  5e+00
 4:  1.7303e+02  2.8627e+02  7e+01  4e-01  3e+00
 5:  3.1195e+02  3.1828e+02  1e+01  3e-02  2e-01
 6:  3.2150e+02  3.2153e+02  2e-01  4e-04  2e-03
 7:  3.2162e+02  3.2162e+02  2e-03  4e-06  2e-05
 8:  3.2162e+02  3.2162e+02  2e-05  4e-08  2e-07
 9:  3.2162e+02  3.2162e+02  2e-07  4e-10  2e-09
Optimal solution found.
```

[0.01202142]
Acc=1.0
Passed
```
     pcost       dcost       gap    pres   dres
 0:  3.9637e-01  1.1413e+01  6e+01  2e+00  3e+01
 1:  8.5731e+00  4.1765e+00  2e+01  7e-01  9e+00
 2:  1.5089e+01  1.4243e+01  5e+00  1e-01  2e+00
 3:  1.8092e+01  1.7851e+01  4e-01  5e-03  6e-02
 4:  1.8106e+01  1.8102e+01  6e-03  7e-05  9e-04
 5:  1.8106e+01  1.8106e+01  6e-05  7e-07  9e-06
 6:  1.8106e+01  1.8106e+01  6e-07  7e-09  9e-08
```
Optimal solution found.
[0.00105239]
Acc=1.0
Passed