```
>> UpdatedPMCLAP
>> UpdatedPMCLAP
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 3700.000000
ans =
    'Facility Coordinates'
ans =
    2.7000 4.1000
    2.7000 4.1000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 3700.000000
ans =
    'Facility Coordinates'
ans =
    2.7000 4.1000
           4.1000
    2.7000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 3700.000000
ans =
    'Facility Coordinates'
ans =
    2.7000 4.1000
2.7000 4.1000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 3700.000000
ans =
    'Facility Coordinates'
```

```
ans =
    2.7000 4.1000
    2.7000 4.1000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 3700.000000
ans =
    'Facility Coordinates'
ans =
    2.7000 4.1000
    2.7000 4.1000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 3700.000000
ans =
    'Facility Coordinates'
ans =
    2.70004.10002.70004.1000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 3700.000000
ans =
    'Facility Coordinates'
ans =
    2.7000 4.1000
2.7000 4.1000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 3700.000000
ans =
```

'Facility Coordinates' ans = 2.7000 4.1000 2.7000 4.1000 Radius: 1.500000e+00, Facilities opened: 2 Epochs: 101 Fitness: 3700.000000 ans = 'Facility Coordinates' ans = 2.7000 4.1000 2.7000 4.1000 Radius: 1.500000e+00, Facilities opened: 2 Epochs: 101 Fitness: 3700.000000 ans = 'Facility Coordinates' ans = 2.70004.10002.20004.0000 Average Fitness: 3700.000000 + Max Fitness: 3700.000000 Standard Deviation: 0.000000 Average Time: 2.493236 counters = 302545 57718 0 13 Radius: 1.500000e+00, Facilities opened: 2 Epochs: 101 Fitness: 5090.000000 ans =

```
ans =
    2.60002.50002.20004.0000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5090.000000
ans =
    'Facility Coordinates'
ans =
    2.6000 2.5000
2.2000 4.0000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5090.000000
ans =
    'Facility Coordinates'
ans =
    2.2000 4.0000
    2.6000 2.5000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5090.000000
ans =
    'Facility Coordinates'
ans =
    2.6000 2.5000
    2.2000 4.0000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5090.000000
ans =
```

```
'Facility Coordinates'
ans =
    2.20004.00002.60002.5000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5090.000000
ans =
    'Facility Coordinates'
ans =
    2.20004.00002.60002.5000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5090.000000
ans =
    'Facility Coordinates'
ans =
    2.60002.50002.20004.0000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5090.000000
ans =
    'Facility Coordinates'
ans =
    2.6000 2.5000
    2.2000 4.0000
```

Radius: 1.500000e+00, Facilities opened: 2

Epochs: 101 Fitness: 5090.000000 ans = 'Facility Coordinates' ans = 2.60002.50002.20004.0000 Radius: 1.500000e+00, Facilities opened: 2 Epochs: 101 Fitness: 5090.000000 ans = 'Facility Coordinates' ans = 2.2000 4.0000 2.6000 2.5000 Average Fitness: 5090.000000 + Max Fitness: 5090.000000 Standard Deviation: 0.000000 Average Time: 2.802878 counters = 358425 1815 0 50 Radius: 1.500000e+00, Facilities opened: 2 Epochs: 101 Fitness: 5210.000000 ans = 'Facility Coordinates' ans = 2.6000 2.5000 4.0000 2.2000

Radius: 1.500000e+00, Facilities opened: 2

Epochs: 101

Fitness: 5210.000000

```
ans =
    'Facility Coordinates'
ans =
    2.20004.00002.90002.1000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5210.000000
ans =
    'Facility Coordinates'
ans =
    2.2000 4.0000
    2.9000 2.1000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5210.000000
ans =
    'Facility Coordinates'
ans =
    2.6000 2.5000
    2.2000 4.0000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5210.000000
ans =
    'Facility Coordinates'
ans =
    2.90002.10002.20004.0000
```

```
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5210.000000
ans =
    'Facility Coordinates'
ans =
    2.2000 4.0000
    2.6000 2.5000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5210.000000
ans =
    'Facility Coordinates'
ans =
    2.9000 2.1000
    2.2000 4.0000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5210.000000
ans =
    'Facility Coordinates'
ans =
    2.20004.00002.90002.1000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 5210.000000
ans =
    'Facility Coordinates'
ans =
    2.2000 4.0000
```

2.9000 2.1000

Radius: 1.500000e+00, Facilities opened: 2

Epochs: 101

Fitness: 5210.000000

ans =

'Facility Coordinates'

ans =

2.6000 2.5000 2.2000 4.0000

Average Fitness: 5210.000000 +

Max Fitness: 5210.000000 Standard Deviation: 0.000000

Average Time: 3.013913

counters =

360295 0 0 5

Radius: 1.500000e+00, Facilities opened: 2

Epochs: 101

Fitness: 4520.000000

ans =

'Facility Coordinates'

ans =

2.90002.70001.90003.8000

Radius: 1.500000e+00, Facilities opened: 2

Epochs: 101

Fitness: 4520.000000

ans =

'Facility Coordinates'

ans =

2.6000 2.5000 1.9000 3.8000

```
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 4520.000000
ans =
    'Facility Coordinates'
ans =
    2.60002.50001.90003.8000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 4520.000000
ans =
    'Facility Coordinates'
ans =
    2.90002.70001.90003.8000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 4520.000000
ans =
    'Facility Coordinates'
ans =
    2.1000 2.8000
1.9000 3.8000
Radius: 1.500000e+00, Facilities opened: 2
Epochs: 101
Fitness: 4520.000000
ans =
    'Facility Coordinates'
ans =
```

2.6000 2.5000 1.9000 3.8000 Radius: 1.500000e+00, Facilities opened: 2 Epochs: 101 Fitness: 4520.000000 ans = 'Facility Coordinates' ans = 2.90002.70001.90003.8000 Radius: 1.500000e+00, Facilities opened: 2 Epochs: 101 Fitness: 4520.000000 ans = 'Facility Coordinates' ans = 2.90002.70001.90003.8000 Radius: 1.500000e+00, Facilities opened: 2 Epochs: 101 Fitness: 4520.000000 ans = 'Facility Coordinates' ans = 2.9000 2.7000 1.9000 3.8000 Radius: 1.500000e+00, Facilities opened: 2 Epochs: 101 Fitness: 4520.000000 ans = 'Facility Coordinates'

```
ans =
    2.90002.70001.90003.8000
Average Fitness: 4520.000000 +
Max Fitness: 4520.00000
Standard Deviation: 0.000000
Average Time: 2.775740
counters =
      344530 15684 0 56
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    1.9000 2.1000
2.4000 4.8000
           3.3000
    2.4000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.9000 2.7000
1.9000 2.1000
    2.4000 4.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
```

```
ans =

      2.4000
      4.8000

      2.6000
      2.5000

      2.4000
      3.3000

Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
ans =
     2.9000 2.7000
     2.40004.80001.90002.1000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
ans =
     1.9000 2.1000
2.4000 3.3000
2.4000 4.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
ans =
     2.1000 2.8000
     1.9000 2.1000
2.4000 4.8000
```

```
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
ans =
     2.1000 2.8000
     2.6000 2.5000
2.4000 4.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
ans =

      2.4000
      4.8000

      2.1000
      2.8000

      2.6000
      2.5000

Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
ans =
     2.4000 4.8000
     2.60002.50002.10002.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
```

ans = 2.9000 2.7000 1.9000 2.1000 2.4000 4.8000 Average Fitness: 5390.000000 + Max Fitness: 5390.000000 Standard Deviation: 0.000000 Average Time: 4.466128 counters = 411748 8408 0 84 Radius: 1.500000e+00, Facilities opened: 3 Epochs: 101 Fitness: 5390.000000 ans = 'Facility Coordinates' ans = 2.5000 6.0000 2.2000 4.0000 2.1000 2.9000 Radius: 1.500000e+00, Facilities opened: 3 Epochs: 101 Fitness: 5390.000000 ans = 'Facility Coordinates' ans = 2.9000 2.1000 1.9000 3.8000 3.0000 5.1000 Radius: 1.500000e+00, Facilities opened: 3 Epochs: 101 Fitness: 5390.000000 ans =

```
ans =
    2.9000 2.1000
2.1000 2.8000
2.4000 4.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.9000 2.1000
    2.40004.80001.70003.3000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.5000 1.4000
2.1000 2.8000
    2.4000 4.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.9000 2.1000
    2.2000 4.0000
2.4000 4.8000
```

```
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    1.9000 3.8000
2.4000 4.8000
2.6000 2.5000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    1.9000 2.1000
2.4000 4.8000
3.0000 3.5000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
ans =
    2.4000 4.8000
    1.9000 3.8000
2.9000 2.1000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
```

```
ans =
    1.9000 2.1000
    2.90002.70002.40004.8000
Average Fitness: 5390.000000 +
Max Fitness: 5390.000000
Standard Deviation: 0.000000
Average Time: 4.377515
counters =
      419980 195 28 91
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5240.000000
ans =
    'Facility Coordinates'
ans =
    2.40004.80002.70003.60002.10002.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5240.000000
ans =
    'Facility Coordinates'
ans =
    2.40004.80002.70003.6000
    2.1000 2.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 119
Fitness: 5260.000000
ans =
```

```
ans =
    2.90002.90002.40004.80002.10002.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5240.000000
ans =
    'Facility Coordinates'
ans =
    2.9000 2.7000
    2.1000 2.8000
2.4000 4.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 129
Fitness: 5260.000000
ans =
    'Facility Coordinates'
ans =
    2.4000 3.3000
2.1000 2.8000
    2.4000 4.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 150
Fitness: 5260.000000
ans =
    'Facility Coordinates'
ans =
    2.1000 2.8000
    2.9000 2.7000
2.4000 4.8000
```

```
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 135
Fitness: 5260.000000
ans =
     'Facility Coordinates'
ans =
     2.4000 4.8000
     2.6000 2.5000
2.4000 3.3000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 120
Fitness: 5260.000000
ans =
     'Facility Coordinates'
ans =

      2.4000
      4.8000

      2.7000
      3.6000

      2.1000
      2.8000

Radius: 1.500000e+00, Facilities opened: 3
Epochs: 149
Fitness: 5260.000000
ans =
     'Facility Coordinates'
ans =
     2.4000 4.8000
     2.40003.30002.10002.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5240.000000
ans =
     'Facility Coordinates'
```

```
ans =
    2.9000 2.7000
    2.4000 4.8000
2.1000 2.8000
Average Fitness: 5252.000000 +
Max Fitness: 5260.000000
Standard Deviation: 9.797959
Average Time: 4.235590
counters =
      497822 4676 0 86
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    1.7000 3.3000
3.0000 5.1000
           2.1000
    2.9000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.60002.50001.90003.8000
    2.4000 4.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
```

```
ans =
    2.40004.80002.40003.30002.90001.2000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.4000 4.8000
    2.10002.80002.60002.5000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.50006.00001.90003.80002.60002.5000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.2000 4.0000
    2.50006.00002.90002.1000
```

```
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.5000 1.4000
2.4000 4.8000
2.1000 2.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.40004.80001.70003.30002.60002.5000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.5000 6.0000
    2.90002.10001.70003.3000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
```

```
ans =
    2.6000 2.5000
   1.90003.80002.50006.0000
Average Fitness: 5390.000000 +
Max Fitness: 5390.000000
Standard Deviation: 0.000000
Average Time: 4.080548
counters =
      420127 0
                           0 149
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    1.7000 3.3000
2.9000 2.1000
           4.8000
    2.4000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.1000 2.8000
2.6000 2.5000
    2.4000 4.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
```

```
ans =
    2.40004.80003.00003.50001.90002.1000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.9000 2.1000
    2.40004.80001.90002.1000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.40004.80001.70003.30002.60002.5000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.4000 4.8000
    2.1000 2.8000
2.6000 2.5000
```

```
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    1.9000 2.1000
2.9000 3.2000
2.4000 4.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    3.2000 2.9000
1.9000 2.1000
2.4000 4.8000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
ans =
    1.9000 3.8000
    2.40004.80002.90002.1000
Radius: 1.500000e+00, Facilities opened: 3
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
```

```
ans =
    1.7000 3.3000
    2.6000 2.5000
2.4000 4.8000
Average Fitness: 5390.000000 +
Max Fitness: 5390.00000
Standard Deviation: 0.000000
Average Time: 4.126999
counters =
      418956 1286 5 45
Radius: 1.500000e+00, Facilities opened: 4
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    2.4000 4.8000
2.9000 2.7000
2.2000 4.0000
1.9000 2.1000
Radius: 1.500000e+00, Facilities opened: 4
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    1.9000 3.8000
    2.5000 6.0000
    3.3000 2.8000
2.6000 2.5000
Radius: 1.500000e+00, Facilities opened: 4
Epochs: 101
Fitness: 5390.000000
ans =
```

'Facility Coordinates' ans = 1.9000 3.8000 2.9000 3.2000 3.0000 5.1000 2.6000 2.5000 Radius: 1.500000e+00, Facilities opened: 4 Epochs: 101 Fitness: 5390.000000 ans = 'Facility Coordinates' ans = 2.4000 4.8000 2.9000 2.7000 1.9000 2.1000 3.4000 3.0000 Radius: 1.500000e+00, Facilities opened: 4 Epochs: 101 Fitness: 5390.000000 ans = 'Facility Coordinates' ans = 2.9000 2.1000 2.9000 2.1000 1.7000 4.2000 3.0000 5.1000 Radius: 1.500000e+00, Facilities opened: 4 Epochs: 101 Fitness: 5390.000000 ans = 'Facility Coordinates'

ans =

```
2.6000 2.5000
3.0000 5.1000
2.7000 4.1000
    1.7000 4.2000
Radius: 1.500000e+00, Facilities opened: 4
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
ans =
    2.7000 4.1000
1.9000 2.1000
2.2000 4.0000
    3.0000 5.1000
Radius: 1.500000e+00, Facilities opened: 4
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
ans =
    2.9000 2.1000
3.0000 5.1000
2.2000 4.0000
2.4000 3.3000
Radius: 1.500000e+00, Facilities opened: 4
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
ans =
     1.9000 2.1000
    2.4000 4.8000
3.2000 2.9000
3.0000 3.5000
```

```
Radius: 1.500000e+00, Facilities opened: 4
Epochs: 101
Fitness: 5390.000000
ans =
    'Facility Coordinates'
ans =
    1.9000 2.1000
2.7000 4.1000
    2.5000 6.0000
    1.7000 4.2000
Average Fitness: 5390.000000 +
Max Fitness: 5390.000000
Standard Deviation: 0.000000
Average Time: 5.201127
counters =
      476825 3270
                          12 175
Radius: 1.500000e+00, Facilities opened: 5
Epochs: 101
Fitness: 5330.000000
ans =
    'Facility Coordinates'
ans =
    2.4000 3.3000
2.1000 2.8000
    1.9000 4.7000
1.9000 2.1000
           3.8000
    1.9000
Radius: 1.500000e+00, Facilities opened: 5
Epochs: 101
Fitness: 5330.000000
ans =
    'Facility Coordinates'
```

ans =

```
2.4000 4.8000
    2.9000 2.1000
2.9000 2.7000
    1.9000 2.1000
2.2000 4.0000
Radius: 1.500000e+00, Facilities opened: 5
Epochs: 101
Fitness: 5330.000000
ans =
    'Facility Coordinates'
ans =
    2.1000 2.8000
3.0000 3.5000
    1.9000 4.7000
    2.20004.00001.90002.1000
Radius: 1.500000e+00, Facilities opened: 5
Epochs: 101
Fitness: 5330.000000
ans =
    'Facility Coordinates'
ans =
    2.4000 3.3000
    2.7000 4.1000
    1.9000 4.7000
2.6000 2.5000
    2.2000 4.0000
Radius: 1.500000e+00, Facilities opened: 5
Epochs: 101
Fitness: 5330.000000
ans =
    'Facility Coordinates'
ans =
    2.9000 3.2000
    2.4000 4.8000
```

```
2.1000 2.8000
1.9000 2.1000
2.2000 4.0000
Radius: 1.500000e+00, Facilities opened: 5
Epochs: 101
Fitness: 5330.000000
ans =
     'Facility Coordinates'
ans =
    3.0000 3.5000
2.1000 2.8000
2.6000 2.5000
2.4000 4.8000
     2.2000 4.0000
Radius: 1.500000e+00, Facilities opened: 5
Epochs: 108
Fitness: 5330.000000
ans =
     'Facility Coordinates'
ans =
    2.4000 3.3000
2.7000 4.1000
2.6000 2.5000
    2.4000 4.8000
     2.2000 4.0000
Radius: 1.500000e+00, Facilities opened: 5
Epochs: 101
Fitness: 5330.000000
ans =
     'Facility Coordinates'
ans =
     2.90002.90002.10002.8000
     2.4000 4.8000
1.9000 2.1000
```

2.2000 4.0000

Radius: 1.500000e+00, Facilities opened: 5

Epochs: 101

Fitness: 5330.000000

ans =

'Facility Coordinates'

ans =

2.90002.70002.40004.80002.90002.70001.90002.10001.90003.8000

Radius: 1.500000e+00, Facilities opened: 5

Epochs: 121

Fitness: 5330.000000

ans =

'Facility Coordinates'

ans =

3.20002.90002.40004.80002.10002.80001.90002.10001.90003.8000

Average Fitness: 5330.000000 +

Max Fitness: 5330.000000 Standard Deviation: 0.000000

Average Time: 6.568166

counters =

533641 21154 3 40

Radius: 1.500000e+00, Facilities opened: 6

Epochs: 101

Fitness: 5390.000000

ans =

^{&#}x27;Facility Coordinates'

```
ans =
     2.5000 1.4000
    3.3000 2.8000
2.4000 4.8000
    2.2000 4.0000
2.9000 3.2000
1.0000 3.2000
Radius: 1.500000e+00, Facilities opened: 6
Epochs: 101
Fitness: 5390.000000
ans =
     'Facility Coordinates'
ans =
    1.7000 4.2000
3.0000 5.1000
2.9000 2.1000
    2.4000 3.3000
    1.9000 2.1000
2.9000 2.9000
Radius: 1.500000e+00, Facilities opened: 6
Epochs: 101
Fitness: 5410.000000
ans =
     'Facility Coordinates'
ans =
    2.4000 4.8000
2.4000 3.3000
    6.0000 2.6000
2.1000 2.8000
1.9000 2.1000
             4.0000
     2.2000
Radius: 1.500000e+00, Facilities opened: 6
Epochs: 101
Fitness: 5390.000000
ans =
```

```
ans =
      2.5000 1.4000
2.9000 2.9000

      2.4000
      4.8000

      3.4000
      3.0000

      2.5000 6.0000
      1.9000 2.1000
Radius: 1.500000e+00, Facilities opened: 6
Epochs: 101
Fitness: 5390.000000
ans =
       'Facility Coordinates'
ans =
      2.90001.20002.10002.80002.70003.6000
      2.70003.60003.00003.50002.40004.8000
Radius: 1.500000e+00, Facilities opened: 6
Epochs: 101
Fitness: 5410.000000
ans =
       'Facility Coordinates'
ans =
      2.4000 4.8000

      2.9000
      3.2000

      2.9000
      2.9000

      1.9000
      2.1000

      1.9000
      3.8000

      6.0000
      2.6000

Radius: 1.500000e+00, Facilities opened: 6
Epochs: 101
Fitness: 5390.000000
ans =
```

'Facility Coordinates' ans = 2.9000 2.1000 3.2000 3.1000 1.7000 3.3000 2.4000 4.8000 2.4000 4.8000 3.2000 3.1000 Radius: 1.500000e+00, Facilities opened: 6 Epochs: 101 Fitness: 5410.000000 ans = 'Facility Coordinates' ans = 6.0000 2.6000 3.2000 2.9000
 2.4000
 4.8000

 2.1000
 2.8000

 1.9000
 2.1000

 1.9000
 3.8000
 Radius: 1.500000e+00, Facilities opened: 6 Epochs: 101 Fitness: 5390.000000 ans = 'Facility Coordinates' ans = 2.2000 4.0000 3.0000 5.1000 3.0000 3.5000 2.9000 1.2000 3.0000 3.5000 2.1000 2.8000 Radius: 1.500000e+00, Facilities opened: 6 Epochs: 101 Fitness: 5390.000000 ans =

ans =

 2.2000
 4.0000

 3.0000
 5.1000

 2.6000
 2.5000

 2.5000
 1.4000

 2.2000
 4.0000

 2.9000
 2.7000

Average Fitness: 5396.000000 +

Max Fitness: 5410.000000 Standard Deviation: 9.165151

Average Time: 7.499074

counters =

582853 14715 44 2586

>>