Team – 46

20161093
20161094

Policy changes occur in iterations :: -
- Iteration 2
- Iteration 3
- Iteration 4
- Iteration 7

Iteration - 1

```
0 1    N = -13.8  E = -9.2   W = -46.0  S = -13.8
0 2    N = -9.2   E = -9.2   W = -9.2   S = -9.2
0 3    N = -9.2   E = -9.2   W = -9.2   S = -9.2
1 0    N = -46.0  E = -12.88 W = -12.88 S = -1.84
1 1    N = -9.2   E = -9.2   W = -9.2   S = -9.2
1 3    N = -9.2   E = -9.2   W = -9.2   S = -9.2
2 0    N = -8.28  E = -9.2   W = -1.84  S = -8.28
2 1    N = -8.28  E = -10.12 W = -2.76  S = -15.64
2 2    N = -9.2   E = -9.2   W = -9.2   S = -9.2
2 3    N = -9.2   E = -4.6   W = -4.6   S = 27.6
3 0    N = -2.76  E = -15.64 W = -8.28  S = -10.12
3 1    N = -9.2   E = -10.12 W = -10.12 S = -16.56
3 2    N = -5.52  E = 27.6   W = -16.56 S = -5.52
```

Board

```
-46.0  -9.2   -9.2   -9.2
-1.84  -9.2   0.0    -9.2
-1.84  -2.76  -9.2   27.6
-2.76  -9.2   27.6   46.0
```

POLICY

-46.0	EAST	NORTH	NORTH
SOUTH	NORTH	W	NORTH
WEST	WEST	NORTH	SOUTH
NORTH	NORTH	EAST	46.0

First policy is produced after 1st iteration. This will be inaccurate as less information is transferred.

Iteration - 2

0 1   N = -22.08 E = -18.4   W = -47.84 S = -22.08
0 2   N = -18.4   E = -18.4   W = -18.4   S = -18.4
0 3   N = -18.4   E = -18.4   W = -18.4   S = -18.4
1 0   N = -47.104 E = -20.884 W = -14.996 S = -8.096
1 1   N = -17.664 E = -17.756 W = -11.868 S = -12.512
1 3   N = -18.4   E = -14.72 W = -14.72 S = 11.04
2 0   N = -10.672 E = -11.868 W = -7.452 S = -11.408
2 1   N = -17.204 E = -18.86 W = -9.292 S = -20.884
2 2   N = -14.076 E = 14.72   W = -9.568 S = 15.364
2 3   N = -14.72 E = 16.56   W = -12.88 S = 29.44
3 0   N = -8.648 E = -20.24 W = -11.408 S = -13.064
3 1   N = -8.924 E = 11.224 W = -13.064 S = -17.756
3 2   N = -13.34 E = 29.44   W = -18.4   S = 16.1

Board

-46.0	-18.4	-18.4	-18.4
-8.096	-11.868	0.0	11.04
-7.452	-9.292	15.364	29.44
-8.648	11.224	29.44	46.0

POLICY

-46.0	EAST	NORTH	NORTH
SOUTH	WEST	W	SOUTH
WEST	WEST	SOUTH	SOUTH
NORTH	EAST	EAST	46.0

Policy considerably changes after this iteration as more
information is now circulated. The maximum possible
utilitites change depending on the changes in the
previous iteration and so policy change occurs at many
places.
Eg: At (3,1) due to flow of value from goal state to all
the other states the preffered action changes from NORTH
to EAST which would take us quickly to the goal state.

Iteration - 3

0 1   N = -30.36 E = -26.9468 W = -49.0268 S = -25.1344
0 2   N = -27.6 E = -27.6 W = -27.6 S = -27.6
0 3   N = -27.6 E = -24.656 W = -24.656 S = -4.048
1 0   N = -47.9964 E = -23.5796 W = -20.562 S = -13.478
1 1   N = -25.9164 E = -21.4636 W = -18.446 S = -18.63
1 3   N = -21.712 E = 0.736 W = 0.736 S = 16.56
2 0   N = -16.8912 E = -18.308 W = -13.156 S = -17.3328
2 1   N = -17.4432 E = 2.5668 W = -12.006 S = -2.6496
2 2   N = 5.106 E = 18.8324 W = -12.1532 S = 16.3668
2 3   N = 4.1124 E = 20.056 W = 8.7952 S = 32.0804
3 0   N = -11.684 E = -5.0508 W = -17.2684 S = -16.3208
3 1   N = -14.5544 E = 14.0852 W = -16.3852 S = -1.8216
3 2   N = 8.3536 E = 32.0804 W = 0.5796 S = 19.6144

Board

-46.0	-25.1344	-27.6	-4.048
-13.478	-18.446	0.0	16.56
-13.156	2.5668	18.8324	32.0804
-5.0508	14.0852	32.0804	46.0

POLICY

-46.0	SOUTH	NORTH	SOUTH
SOUTH	WEST	W	SOUTH
WEST	EAST	EAST	SOUTH
EAST	EAST	EAST	46.0

Policy changes are still considerable.
Eg: At (3,0) due to flow of value from goal state to all
the other states the preffered action changes from NORTH
to EAST which would take us quickly to the goal state.

Iteration - 4

0 1   N = -36.66752 E = -35.63804 W = -50.35804 S = -31.3168
0 2   N = -34.19824 E = -17.9584 W = -34.82752 S = -34.19824
0 3   N = -15.6032 E = -11.1872 W = -30.0288 S = 0.8832
1 0   N = -49.1924 E = -29.4124 W = -25.438 S = -19.2372
1 1   N = -32.49992 E = -26.21356 W = -22.23916 S = -10.33896
1 3   N = -9.1264 E = 6.85124 W = 6.85124 S = 19.77632
2 0   N = -20.58132 E = -8.99944 W = -17.89768 S = -13.83956
2 1   N = -22.92916 E = 4.96984 W = -16.94088 S = -0.5842
2 2   N = 9.33064 E = 21.5556 W = -2.05528 S = 19.92904
2 3   N = 9.13928 E = 22.72032 W = 12.12192 S = 32.69128
3 0   N = -15.60136 E = -2.97252 W = -14.60132 S = -12.7972
3 1   N = -4.4436 E = 17.66952 W = -12.03544 S = 1.09112
3 2   N = 11.41444 E = 32.69128 W = 3.47944 S = 22.01284

Board

-46.0	-31.3168	-17.9584	0.8832
-19.2372	-10.33896	0.0	19.77632
-8.99944	4.96984	21.5556	32.69128
-2.97252	17.66952	32.69128	46.0

POLICY

-46.0	SOUTH	EAST	SOUTH
SOUTH	SOUTH	W	SOUTH
EAST	EAST	EAST	SOUTH
EAST	EAST	EAST	46.0

Policy changes are still significant.
Eg: At (0, 2) due to flow of value from goal state to all
the other states the preffered action changes from NORTH
to EAST which would take us to the goal state.

Iteration - 5

0 1   N = -40.64928 E = -27.732296 W = -50.165576 S = -23.867008
0 2   N = -26.61008 E = -12.08512 W = -37.84512 S = -26.61008
0 3   N = -10.20096 E = -6.427488 W = -21.500768 S = 4.913536
1 0   N = -48.957616 E = -22.511112 W = -29.629704 S = -15.677168
1 1   N = -37.211056 E = -20.105864 W = -27.224456 S = -8.181744
1 3   N = -4.538176 E = 9.978504 W = 9.978504 S = 20.908288
2 0   N = -24.53272 E = -7.4451 W = -14.940524 S = -11.520976
2 1   N = -15.755552 E = 8.317536 W = -12.446496 S = 2.971232
2 2   N = 11.810592 E = 22.377712 W = 0.20056 S = 20.719136
2 3   N = 12.045744 E = 23.530656 W = 14.622112 S = 33.024688
3 0   N = -11.709852 E = 0.51842 W = -12.315212 S = -10.568316
3 1   N = -2.252252 E = 18.75696 W = -9.77408 S = 4.227492
3 2   N = 13.951432 E = 33.024688 W = 6.680304 S = 22.859976

Board

-46.0   -23.867008   -12.08512   4.913536
-15.677168   -8.181744   0.0   20.908288
-7.4451   8.317536   22.377712   33.024688
0.51842   18.75696   33.024688   46.0

POLICY

-46.0   SOUTH   EAST   SOUTH
SOUTH   SOUTH   W   SOUTH
EAST   EAST   EAST   SOUTH
EAST   EAST   EAST   46.0

No policy changes after this iteration.

Iteration - 6

0 1   N = -34.1021184 E = -22.0729712 W = -49.2048752 S = -21.5539072
0 2   N = -20.7634432 E = -7.6861952 W = -30.7106304 S = -20.7634432
0 3   N = -5.9863296 E = -2.6869888 W = -16.2859136 S = 6.809472
1 0   N = -48.3858912 E = -20.6299052 W = -26.6262444 S = -13.8619712
1 1   N = -30.6794976 E = -17.3003424 W = -23.2966816 S = -4.9318624
1 3   N = -1.0875136 E = 11.3204528 W = 11.3204528 S = 21.401408
2 0   N = -21.1944908 E = -4.061846 W = -12.9919548 S = -8.2380204
2 1   N = -13.792134 E = 9.2996912 W = -10.8785584 S = 4.0788292
2 2   N = 12.836392 E = 22.7599904 W = 2.9942688 S = 21.3539728
2 3   N = 13.0668704 E = 23.9105792 W = 15.3929984 S = 33.14024
3 0   N = -10.008542 E = 1.8929 W = -9.017932 S = -7.317726
3 1   N = 0.8083396 E = 19.4672 W = -6.5378144 S = 5.4798788
3 2   N = 14.7178656 E = 33.14024 W = 7.665808 S = 23.2354464

Board

-46.0   -21.5539072 -7.6861952   6.809472
-13.8619712   -4.9318624   0.0   21.401408
-4.061846   9.2996912   22.7599904   33.14024
1.8929   19.4672   33.14024   46.0

POLICY

-46.0   SOUTH   EAST   SOUTH
SOUTH   SOUTH   W   SOUTH
EAST   EAST   EAST   SOUTH
EAST   EAST   EAST   46.0
No policy changes after this iteration.

Iteration - 7

```
0 1    N = -31.81174528  E = -17.99753312  W = -48.64857696  S = -18.51410944
0 2    N = -16.82339968  E = -5.28966144   W = -27.9803648   S = -16.82339968
0 3    N = -3.84009472   E = -0.9313344    W = -12.52786816  S = 7.83345408
1 0    N = -47.87938336  E = -17.69167452  W = -24.83576156  S = -10.64886016
1 1    N = -28.32250912  E = -14.37091152  W = -21.51499856  S = -3.6396304
1 3    N = 0.5278592     E = 11.9160976    W = 11.9160976    S = 21.5924736
2 0    N = -19.30579244  E = -2.95715416   W = -9.96638392   S = -6.70189548
2 1    N = -10.81567548  E = 10.00152608   W = -7.77594304   S = 5.02357444
2 2    N = 13.25198544   E = 22.90221504   W = 3.829776      S = 21.55618512
2 3    N = 13.51114944   E = 24.0523328    W = 15.74813312   S = 33.19002304
3 0    N = -7.0934668    E = 2.9368654     W = -7.4425746    S = -6.00967
3 1    N = 1.74306696    E = 19.72888112   W = -5.26899088   S = 6.197074
3 2    N = 15.09471232   E = 33.19002304   W = 8.28378304    S = 23.398912
```

Board

-46.0	-17.99753312	-5.28966144	7.83345408
-10.64886016	-3.6396304	0.0	21.5924736
-2.95715416	10.00152608	22.90221504	33.19002304
2.9368654	19.72888112	33.19002304	46.0

POLICY

-46.0	EAST	EAST	SOUTH
SOUTH	SOUTH	W	SOUTH
EAST	EAST	EAST	SOUTH
EAST	EAST	EAST	46.0

Policy changes at (0,1) from SOUTH to EAST because it
reduces the probability of going to the bad end state to
zero and moreover provides a higher utility state towards
the right of current state.

```
----------------------------------------------------------------------
Iteration -  8

0 1    N = -28.72699264  E = -15.595445504  W = -48.163716352  S = -17.240670464
0 2    N = -14.448137056  E = -3.991169024  W = -24.655958784  S = -14.448137056
0 3    N = -2.678857472  E =  0.00935603200002  W = -10.489136384  S =  8.328358144
1 0    N = -47.428849056  E = -16.547419736  W = -22.154803544  S = -9.314572384
1 1    N = -25.026875552  E = -12.911305024  W = -18.518688832  S = -2.627628192
1 3    N =  1.385257984  E =  12.176326592  W =  12.176326592  S =  21.670513152
2 0    N = -16.554650936  E = -1.969978612  W = -8.656922804  S = -5.686070488
2 1    N = -9.657198232  E =  10.270697104  W = -6.736798256  S =  5.357610984
2 2    N =  13.440926944  E =  22.96124224  W =  4.410444672  S =  21.671173344
2 3    N =  13.683202688  E =  24.111265792  W =  15.881019392  S =  33.209223808
3 0    N = -6.079148676  E =  3.36107602  W = -6.392536556  S = -5.043933028
3 1    N =  2.413909708  E =  19.865059152  W = -4.33746696  S =  6.51579374
3 2    N =  15.234660144  E =  33.209223808  W =  8.512328704  S =  23.464906544


Board

-46.0              -15.595445504      -3.991169024       8.328358144
-9.314572384       -2.627628192       0.0                21.670513152
-1.969978612       10.270697104       22.96124224        33.209223808
3.36107602         19.865059152       33.209223808       46.0

POLICY

-46.0         EAST          EAST          SOUTH
SOUTH         SOUTH         W             SOUTH
EAST          EAST          EAST          SOUTH
EAST          EAST          EAST          46.0
```

No policy changes after this iteration.
```
----------------------------------------------------------------------
```

```
-----------------------------------------------------------------------
Iteration -  9

0 1    N = -26.6754733056 E = -14.2152425888 W = -47.8223073696 S = -16.301219456
0 2    N = -13.1196439552 E = -3.3355472896 W = -22.474590208 S = -13.1196439552
0 3    N = -2.1035945728 E = 0.4625736448 W = -9.3930480896 S = 8.5701294336
1 0    N = -47.1942200576 E = -15.6391004148 W = -20.9886557684 S = -8.2902029472
1 1    N = -22.8705764608 E = -11.8345773936 W = -17.1841327472 S = -2.1776623744
1 3    N = 1.7967891456 E = 12.2901687168 W = 12.2901687168 S = 21.7014816768
2 0    N = -15.361586058 E = -1.5787919532 W = -7.691332526 S = -5.2210673348
2 1    N = -8.7429761908 E = 10.432736888 W = -5.8322397936 S = 5.5711736844
2 2    N = 13.5169858832 E = 22.9844256512 W = 4.633604288 S = 21.7153711376
2 3    N = 13.7534571264 E = 24.1344303616 W = 15.9360451072 S = 33.2170466048
3 0    N = -5.2333693724 E = 3.6111570624 W = -5.9120294432 S = -4.6485256668
3 1    N = 2.673587666 E = 19.920954672 W = -3.9575635584 S = 6.6690773044
3 2    N = 15.2954997072 E = 33.2170466048 W = 8.6290939264 S = 23.4938849616

Board

-46.0              -14.2152425888     -3.3355472896      8.5701294336
-8.2902029472      -2.1776623744      0.0                21.7014816768
-1.5787919532      10.432736888       22.9844256512      33.2170466048
3.6111570624       19.920954672       33.2170466048      46.0

POLICY

-46.0         EAST        EAST        SOUTH
SOUTH         SOUTH       W           SOUTH
EAST          EAST        EAST        SOUTH
EAST          EAST        EAST        46.0

No policy changes after this iteration.
-----------------------------------------------------------------------
```

```
----------------------------------------------------------------------
Iteration -  10

0 1    N = -25.5057488  E = -13.507728328  W = -47.6392904963  S = -15.8756846285
0 2    N = -12.4329491472  E = -3.01100591104  W = -21.239303529  S = -12.4329491472
0 3    N = -1.82043823872  E = 0.68326465792  W = -8.84127672064  S = 8.68464355584
1 0    N = -47.0467865322  E = -15.2400090948  W = -20.1300415531  S = -7.82982009472
1 1    N = -21.6189806032  E = -11.3203804696  W = -16.2104129278  S = -1.90059702176
1 3    N = 1.99639988224  E = 12.3399029453  W = 12.3399029453  S = 21.7139336192
2 0    N = -14.4867678643  E = -1.32171507808  W = -7.25093815104  S = -4.9656798566
2 1    N = -8.34156652972  E = 10.5018697507  W = -5.4687043328  S = 5.6573271074
2 2    N = 13.5525188702  E = 22.9937845094  W = 4.766336736  S = 21.7386156331
2 3    N = 13.781332567  E = 24.1437854515  W = 15.9576886886  S = 33.2201472256
3 0    N = -4.88982238912  E = 3.72000024852  W = -5.64783783916  S = -4.41786317664
3 1    N = 2.82900987712  E = 19.9490064398  W = -3.73570519408  S = 6.73958410432
3 2    N = 15.3196359882  E = 33.2201472256  W = 8.6769109632  S = 23.505732751

Board

-46.0              -13.507728328      -3.01100591104     8.68464355584
-7.82982009472     -1.90059702176     0.0                21.7139336192
-1.32171507808     10.5018697507      22.9937845094      33.2201472256
3.72000024852      19.9490064398      33.2201472256      46.0

POLICY

-46.0         EAST         EAST         SOUTH
SOUTH         SOUTH        W            SOUTH
EAST          EAST         EAST         SOUTH
EAST          EAST         EAST         46.0

No policy changes after this iteration.
----------------------------------------------------------------------
```

Iteration - 11

0 1   N = -24.9072832535 E = -13.1496372638 W = -47.540832535 S = -15.6215782085
0 2   N = -12.091113206 E = -2.85448633754 W = -20.6083838446 S = -12.091113206
0 3   N = -1.68492139085 E = 0.787572562176 W = -8.56894701133 S = 8.73851065984
1 0   N = -46.9730417116 E = -14.9926491252 W = -19.7360275836 S = -7.55041377411
1 1   N = -20.979224374 E = -11.0210634751 W = -15.7644419335 S = -1.77154591107
1 3   N = 2.09050156851 E = 12.3616259735 W = 12.3616259735 S = 21.7189045043
2 0   N = -14.0858406085 E = -1.20948618404 W = -6.98835404708 S = -4.84598433392
2 1   N = -8.09327067427 E = 10.5398685494 W = -5.23253112066 S = 5.70641209501
2 2   N = 13.5672293052 E = 22.997510954 W = 4.82288897408 S = 21.7483194781
2 3   N = 13.7925400689 E = 24.1475111424 W = 15.9664209695 S = 33.2213931735
3 0   N = -4.67047139363 E = 3.77903366892 W = -5.52417128414 S = -4.31709913235
3 1   N = 2.89551054799 E = 19.9612053995 W = -3.63891218213 S = 6.77321989928
3 2   N = 15.3299282515 E = 33.2213931735 W = 8.70059832538 S = 23.5110184245

Board

-46.0   -13.1496372638   -2.85448633754   8.73851065984
-7.55041377411   -1.77154591107   0.0   21.7189045043
-1.20948618404   10.5398685494   22.997510954   33.2213931735
3.77903366892   19.9612053995   33.2213931735   46.0

POLICY

-46.0   EAST   EAST   SOUTH
SOUTH   SOUTH   W   SOUTH
EAST   EAST   EAST   SOUTH
EAST   EAST   EAST   46.0

No policy changes after this iteration.

```
---------------------------------------------------------------------
Iteration -  12

0 1    N = -24.6051584448 E = -12.9757073875 W = -47.4921183175 S = -15.5026853626
0 2    N = -11.9247017304 E = -2.78008873964 W = -20.2906070786 S = -11.9247017304
0 3    N = -1.6207890399 E = 0.836550044288 W = -8.43784755361 S = 8.76352603569
1 0    N = -46.9321959685 E = -14.8781853473 W = -19.5012796377 S = -7.41978491575
1 1    N = -20.6519057796 E = -10.8782136003 W = -15.5013078907 S = -1.70030112903
1 3    N = 2.13458942874 E = 12.3711139868 W = 12.3711139868 S = 21.7208954397
2 0    N = -13.8472927828 E = -1.14524317103 W = -6.86472695775 S = -4.78373482834
2 1    N = -7.97843425186 E = 10.556974712 W = -5.12862299839 S = 5.72776679662
2 2    N = 13.5741349355 E = 22.9990049516 W = 4.85378525224 S = 21.7532407111
2 3    N = 13.7970140162 E = 24.1490049892 W = 15.9698992136 S = 33.2218904127
3 0    N = -4.57356504039 E = 3.80591906812 W = -5.45981831638 S = -4.26274915802
3 1    N = 2.93193752373 E = 19.9672219337 W = -3.58666566998 S = 6.78900700387
3 2    N = 15.3341293031 E = 33.2218904127 W = 8.71085473238 S = 23.5132350788

Board

-46.0               -12.9757073875      -2.78008873964      8.76352603569
-7.41978491575      -1.70030112903      0.0                 21.7208954397
-1.14524317103      10.556974712        22.9990049516       33.2218904127
3.80591906812       19.9672219337       33.2218904127       46.0

POLICY

-46.0       EAST        EAST        SOUTH
SOUTH       SOUTH       W           SOUTH
EAST        EAST        EAST        SOUTH
EAST        EAST        EAST        46.0
```

No policy changes after this iteration.
```
---------------------------------------------------------------------
```

```
--------------------------------------------------------------------
Iteration -  13

0 1    N = -24.458574784  E = -12.8916718434  W = -47.4676008517  S = -15.4382497772
0 2    N = -11.8452891269  E = -2.74519691938  W = -20.1365836579  S = -11.8452891269
0 3    N = -1.59083544185  E = 0.859262976084  W = -8.37562884417  S = 8.77506008134
1 0    N = -46.9120086045  E = -14.8147652203  W = -19.3903522497  S = -7.3482031413
1 1    N = -20.4925745145  E = -10.8021141708  W = -15.3777012002  S = -1.66642883485
1 3    N = 2.15499991648  E = 12.3752579966  W = 12.3752579966  S = 21.7216914181
2 0    N = -13.7346547785  E = -1.11580681514  W = -6.79758112159  S = -4.75409159141
2 1    N = -7.91486472517  E = 10.5658960417  W = -5.06950245636  S = 5.73915372501
2 2    N = 13.5770904737  E = 22.9996018666  W = 4.86766930606  S = 21.7553988427
2 3    N = 13.7988058882  E = 24.1496018742  W = 15.9712935052  S = 33.2220895364
3 0    N = -4.51888043664  E = 3.81984513666  W = -5.4291971558  S = -4.23795064533
3 1    N = 2.94836071771  E = 19.9699319948  W = -3.56284508093  S = 6.79655849504
3 2    N = 15.3359261546  E = 33.2220895364  W = 8.71586708338  S = 23.5142345236

Board

-46.0   -12.8916718434      -2.74519691938      8.77506008134
-7.3482031413       -1.66642883485      0.0     21.7216914181
-1.11580681514      10.5658960417       22.9996018666       33.2220895364
3.81984513666       19.9699319948       33.2220895364       46.0

POLICY

-46.0           EAST            EAST            SOUTH
SOUTH           SOUTH           W               SOUTH
EAST            EAST            EAST            SOUTH
EAST            EAST            EAST            46.0

No policy changes after this iteration.
--------------------------------------------------------------------
```

```
--------------------------------------------------------------------
Iteration -  14

0 1    N = -24.3878571666  E = -12.8519676033  W = -47.4558100678  S = -15.4076627598
0 2    N = -11.8078187117  E = -2.7289913188  W = -20.0623768586  S = -11.8078187117
0 3    N = -1.57696561873  E = 0.869723215018  W = -8.34648238556  S = 8.7803394507
1 0    N = -46.9014631976  E = -14.7847237494  W = -19.3301431946  S = -7.31410864973
1 1    N = -20.4148006723  E = -10.765720648  W = -15.3111400932  S = -1.64874636425
1 3    N = 2.1643863487  E = 12.3770680963  W = 12.3770680963  S = 21.7220099128
2 0    N = -13.6735535904  E = -1.1001189671  W = -6.76548125257  S = -4.73911496801
2 1    N = -7.88476356273  E = 10.5700318093  W = -5.04229513612  S = 5.74432510097
2 2    N = 13.5784800511  E = 22.9998407694  W = 4.87488597367  S = 21.756470187
2 3    N = 13.7995222748  E = 24.149840771  W = 15.9718506351  S = 33.2221691403
3 0    N = -4.49366773897  E = 3.82634942797  W = -5.41372005852  S = -4.22514617753
3 1    N = 2.95691030068  E = 19.9712544328  W = -3.55054108702  S = 6.80013906313
3 2    N = 15.3366746928  E = 33.2221691403  W = 8.71811473612  S = 23.5146648286

Board

-46.0              -12.8519676033     -2.7289913188      8.7803394507
-7.31410864973     -1.64874636425     0.0                21.7220099128
-1.1001189671      10.5700318093      22.9998407694      33.2221691403
3.82634942797      19.9712544328      33.2221691403      46.0

POLICY

-46.0         EAST         EAST         SOUTH
SOUTH         SOUTH        W            SOUTH
EAST          EAST         EAST         SOUTH
EAST          EAST         EAST         46.0

No policy changes after this iteration.
--------------------------------------------------------------------
```

```
--------------------------------------------------------------------
Iteration -  15

0 1    N = -24.3544732145  E = -12.8332644518  W = -47.4500713968  S = -15.3918962233
0 2    N = -11.7903558703  E = -2.7215267032  W = -20.0273723464  S = -11.7903558703
0 3    N = -1.57059362625  E = 0.874506496909  W = -8.3329581187  S = 8.78274274341
1 0    N = -46.8962855014  E = -14.7690089881  W = -19.3012988165  S = -7.29638067508
1 1    N = -20.3778595841  E = -10.7471906708  W = -15.2794804992  S = -1.64026005396
1 3    N = 2.16867354312  E = 12.3778587893  W = 12.3778587893  S = 21.7221372948
2 0    N = -13.6442956356  E = -1.09275047474  W = -6.74887109585  S = -4.7319291734
2 1    N = -7.86902491116  E = 10.5721234224  W = -5.02784436682  S = 5.74697572647
2 2    N = 13.5790927105  E = 22.9999363032  W = 4.87822643841  S = 21.7569554072
2 3    N = 13.7998089212  E = 24.1499363035  W = 15.9720736068  S = 33.222200991
3 0    N = -4.4803347876  E = 3.82962659232  W = -5.40629741154  S = -4.21916007155
3 1    N = 2.96087730426  E = 19.9718639365  W = -3.54479183342  S = 6.80185540306
3 2    N = 15.3369980588  E = 33.222200991  W = 8.71920453721  S = 23.5148607555

Board

-46.0               -12.8332644518      -2.7215267032       8.78274274341
-7.29638067508      -1.64026005396      0.0                 21.7221372948
-1.09275047474      10.5721234224       22.9999363032       33.222200991
3.82962659232       19.9718639365       33.222200991        46.0

POLICY

-46.0           EAST        EAST        SOUTH
SOUTH           SOUTH       W           SOUTH
EAST            EAST        EAST        SOUTH
EAST            EAST        EAST        46.0

No policy changes after this iteration.
--------------------------------------------------------------------
```

Final Policy -->

[3, 0] --> [3, 1] --> [3, 2] --> [3, 3]

Final Board -->

-46.0	-12.8332644518	-2.7215267032	8.78274274341
-7.29638067508	-1.64026005396	0.0	21.7221372948
-1.09275047474	10.5721234224	22.9999363032	33.222200991
3.82962659232	19.9718639365	33.222200991	46.0

After certain number of iterations policy changes reduced
considerably, as the flow of information from one state
to another stops affecting the magnitude of original
value by a large amount.