Cole Feely and Zach Zhao
CS 383 Artificial Intelligence
Homework 5

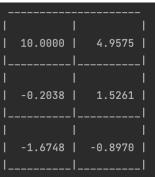Question 1:

s	(1,1)	(2,1)	(1,2)	(2,2)	(2,3)
U0(s)	-1	-1	-5	-1	-1
U1(s)	-1.9	-1.9	1.66	-1.9	6.02
U2(s)	-0.1468	-2.71	2.1784	3.3128	6.5708
U3(s)	0.3113	1.1281	2.6942	4.2252	7.0895

Question 3:

```
Iteration:  2
Utilities:

  _____
|          |          |
|   10.0000 |   -1.0000 |
|_____|_____|
|          |          |
|  -99.9100 |   -1.9000 |
|_____|_____|
|          |          |
|   -1.9000 |   -1.9000 |
|_____|_____|


  _____
|          |          |
|   10.0000 |   -1.0000 |
|_____|_____|
|          |          |
|  -100.6390 |   -2.6290 |
|_____|_____|
|          |          |
|   -2.7100 |   -2.7100 |
|_____|_____|
```

Question 4

```
Iteration:  14
Utilities:

 _____
|          |          |
|  10.0000 |   4.9554 |
|_____|_____|
|          |          |
|  -0.2059 |   1.5224 |
|_____|_____|
|          |          |
|  -1.6819 |  -0.9053 |
|_____|_____|


 _____
|          |          |
|  10.0000 |   4.9575 |
|_____|_____|
|          |          |
|  -0.2038 |   1.5261 |
|_____|_____|
|          |          |
|  -1.6748 |  -0.8970 |
|_____|_____|
```

Question 5

```
Iteration:  7
Utilities:

 _____
|          |         |
|  10.0000 |  4.1074 |
|_____|_____|
|          |         |
|  -0.1479 |  1.0229 |
|_____|_____|
|          |         |
|  -1.1814 | -0.6211 |
|_____|_____|


 _____
|          |         |
|  10.0000 |  4.1078 |
|_____|_____|
|          |         |
|  -0.1475 |  1.0241 |
|_____|_____|
|          |         |
|  -1.1791 | -0.6172 |
|_____|_____|
```