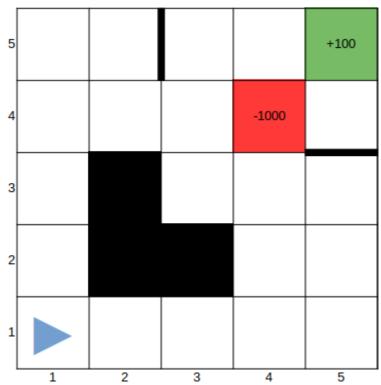
## CPSC 4420/6420: ARTIFICIAL INTELLIGENCE

## **ASSIGNMENT 2**

NAME: Charanjit Singh

Consider the following puzzle. The green and red states are both terminal states, with the rewards as shown (so we can consider the green state the "goal", and the red a "game over" state with a large negative reward). Thick borders between cells represent walls that the robot player cannot cross, and the black squares contain obstacles and cannot be entered. The robot player is represented by the blue triangle, and the direction the triangle points is the way the robot is facing.



Let's represent a state with (x,y,d), where x and y represent the horizontal and vertical positions (i.e. location), and d represents the direction the robot is facing (1: up, 2: down, 3: left, and 4: right).

The robot can take the following actions:

A<sub>1</sub>: Move one cell forward in the direction it is facing. Cost: 1.5 A<sub>2</sub>: Move two cells forward in the direction it is facing. Cost: 2

A<sub>3</sub>: Turn to its left and stay in the same cell. Cost: 0.5 A<sub>4</sub>: Turn to its right and stay in the same cell. Cost: 0.5

Note that each action has a different cost value. This can also be considered an immediate negative reward. For example, we have  $R(s,A_1,s')=-1.5$ . The cost is evaluated on the current state, (the state the robot is in when it begins the action, not the one it lands on after

performing the action). In the same way, the value of state V(s) represents the value of the current state and you should initialize the algorithm with  $V_1(5,5,x)=+100$ ,  $V_1(4,4,x)=-1000$  (for x=1,2,3,4 representing the robot orientation/direction), and zero for all other states.

So, for example, if the robot is in state (4,1,4), it means that it is in location (4,1) and facing right. The result of possible actions for this state are as follows:

 $A_1$  (move 1 cell forward) --> (5,1,4)

 $A_2$  (move 2 cells forward) --> impossible remains in the current state (4,1,4)

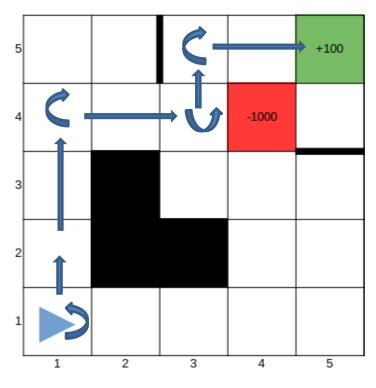
 $A_3$  (turn left) --> (4,1,1): the robot stays in (4,1) but now faces up

 $A_4$  (turn right) --> (4,1,2): the robot stays in (4,1) but now faces down

A move is impossible if it would result in landing on a blocked cell, like (2,2), (2,3), or (3,2), or if it would result in crossing a barrier, like moving from state (2,5) to (3,5), or (5,3) to (5,4). A move that would take the robot outside of our 5x5 grid is also impossible.

Note that we have more states than the number of cells, because the robot facing a different direction produces a new state, even if it does not change location. In the example above, if we move to (4,1,1), where the robot is facing up, this is a different state from the one we were in, (4,1,4), even though the robot has not moved cells.

- A) If there is no living reward/penalty, no noise, and no discount (gamma = 1), use your common sense to find the best possible route from (1,1) to (5,5).
- Ans) Considering no living reward/penalty, no noise and discount factor = 1, the best possible route will be the one which costs the least. So, the following path should be followed for most optimal results:



Current State	Action	Resulting	Cost
		State	
(1,1,4)	A3	(1,1,1)	-0.5
(1,1,1)	A1	(1,2,1)	-1.5
(1,2,1)	A2	(1,4,1)	-2.0
(1,4,1)	A4	(1,4,4)	-0.5
(1,4,4)	A2	(3,4,4)	-2.0
(3,4,4)	A3	(3,4,1)	-0.5
(3,4,1)	A1	(3,5,1)	-1.5
(3,5,1)	A4	(3,5,4)	-0.5
(3,5,4)	A2	(5,5,4)	-2.0
		Total Cost	-11

B) With no discount (gamma = 1), no living reward, and no noise, use the Value Iteration Algorithm with 100 iterations to update the optimal values for each state and print the result [only for the first 10 iterations] in the following format:

```
iter 1: state (1,1,1) V = (some value) Best Action: A<sub>i</sub> (where i is some number 1-4) Best Action: A<sub>j</sub> Best Action: A<sub>j</sub>

iter 2: state (1,1,1) V = (some value) Best Action: A<sub>i</sub> (where i is some number 1-4) Best Action: A<sub>j</sub>

best Action: A<sub>j</sub> Best Action: A<sub>i</sub> (where i is some number 1-4) Best Action: A<sub>j</sub>

best Action: A<sub>j</sub> Best Action: A<sub>j</sub>

constate (5,5,4) V = (some value)
```

If two actions are tied for best, you can select one at random or always choose the one with the smallest index.

Ans) The result of first 10 value iterations is attached at the end.

Click on the following hyperlink for result: Iteration Value Results

Refer to HW2\_B\_Charanjit\_Singh.py file for python code.

```
Run

C:\Users\chara\AppBata\Local\Programs\Python\Python310\python.exe C:\Users\chara\GneDrive\Desktop\MDP.py

Iteration 1:

State (1, 1, 1) V = -0.5

Best Action: A3

State (1, 1, 2) V = -0.5

Best Action: A3

State (1, 1, 3) V = -1.0

Best Action: A3

State (1, 2, 1) V = -0.5

Best Action: A3

State (1, 2, 1) V = -0.5

Best Action: A3

State (1, 2, 3) V = -1.0

Best Action: A3

State (1, 2, 3) V = -1.0

Best Action: A3

State (1, 2, 3) V = -0.5

Best Action: A3

State (1, 3, 1) V = -0.5

Best Action: A3

State (1, 3, 3) V = -1.0

Best Action: A3

State (1, 3, 3) V = -0.5

Best Action: A3

State (1, 3, 4) V = -1.0

Best Action: A3

State (1, 3, 4) V = -1.0

Best Action: A3

State (1, 3, 4) V = -1.0

Best Action: A3

State (1, 4, 2) V = -0.5

Best Action: A3

State (1, 4, 2) V = -0.5

Best Action: A3

State (1, 4, 2) V = -0.5

Best Action: A3

State (1, 4, 2) V = -0.5

Best Action: A3

State (1, 4, 4) V = -1.0

Best Action: A3

State (1, 5, 3) V = -1.0

Best Action: A3

State (1, 5, 3) V = -0.5

Best Action: A3

State (1, 5, 3) V = -0.5

Best Action: A3

State (1, 5, 3) V = -1.0

Best Action: A3

State (2, 1, 3) V = -0.5

Best Action: A3

State (2, 1, 3) V = -1.0

Best Action: A3

State (2, 1, 3) V = -1.0

Best Action: A3

State (2, 2, 3) V = -1.0

Best Action: A3

State (2, 2, 3) V = -1.0

Best Action: A3

State (2, 2, 3) V = -1.0

Best Action: No Action

Best Action: No Act
```

Figure 1: Screenshot of Value Iteration results for reference

The optimal policy recommended is shown in figure 2:

```
Policy Extraction with initial state: (1, 1, 4)

Current State: (1, 1, 4), Best Action: A3

Current State: (1, 1, 1), Best Action: A1

Current State: (1, 2, 1), Best Action: A2

Current State: (1, 4, 1), Best Action: A4

Current State: (1, 4, 4), Best Action: A2

Current State: (3, 4, 4), Best Action: A3

Current State: (3, 4, 1), Best Action: A1

Current State: (3, 5, 1), Best Action: A4

Current State: (3, 5, 4), Best Action: A2

Final State: (5, 5, 4)

Process finished with exit code 0
```

Figure 2: Optimal path recommended by the policy from state (1,1,4) to terminal state

- C) If you start from state (1,1,4) and follow the optimal policy you found in part B, does it follow the same path you proposed in part A?
- Ans) **Yes**, it follows the same path as proposed in part A.



Figure 3: Screenshot of path followed by optimal policy found in part B

- D) Repeat part B with the same assumptions, except for gamma = 0.8 (discount factor). Compare the results with that from part B. Do they match?
- Ans) The result of first 10 value iterations is attached at the end.

  Click on the following hyperlink for result: Iteration Value Results

  Refer to HW2\_D\_Charanjit\_Singh.py file for python code.

Comparing the results with part B, although the values of  $V^*$  are different for cases when discount factor = 1 (for Part B) or discount factor = 0.8 (for Part D).

But, the best action obtained by following the path with maximum expected utility, i.e.

$$\pi^*(s) = \arg\max_{a} Q^*(s, a)$$

## is same for both parts B and D.

So, the action A to be followed in a particular state S, will be the same if we choose to follow policy obtained in part D or in part B.

```
Run:

| MOP × | C:\Users\chan\a\papData\Local\Programs\Python\Python310\python.exe C:\Users\chan\a\gamma\Delta\top\Programs\Python\Python310\python.exe C:\Users\chan\a\gamma\Delta\top\Programs\Python\Python310\python.exe C:\Users\chan\a\gamma\Delta\top\Programs\Python\Programs\Python.exe C:\Users\chan\a\gamma\Delta\top\Programs\Python\Programs\Python\Programs\Python.exe C:\Users\chan\a\gamma\Delta\top\Programs\Python\Programs\Python\Programs\Python.exe C:\Users\chan\a\gamma\Delta\top\Programs\Python\Programs\Python\Programs\Python\Programs\Python.exe C:\Users\chan\programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Programs\Python\Program\Python\Programs\Python\Program\Python\Python\Programs\Python\Program\Python\Program\Python\Program\Pyth
```

Figure 4: Screenshot of Value Iteration results for reference

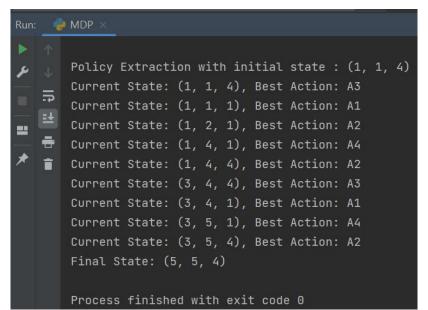


Figure 5: Optimal Path for discount factor = 0.8

Path is same as seen in figure 2

- E) Repeat part B with the same assumptions, except for gamma = 0.2. Compare the results with that from parts B and D. Do they match?
- Ans) The result of first 10 value iterations is attached at the end.

  Click on the following hyperlink for result: Iteration Value Results

  Refer to HW2\_E\_Charanjit\_Singh.py file for python code.

  Comparing with results from Parts B and D, the results (optimal paths recommended) do

  NOT match.

As the value of discount factor (gamma) has decreased considerably, the utility of future rewards has reduced drastically owing to discounting of rewards.  $U_\pi = \sum^H \gamma^t R(\mathbf{s}_t)$ 

This tends the agent more towards myopic behavior, i.e. the agent will consider the immediate rewards more strongly as compared to future rewards (as the reward component of equation is weighed more).  $V^*(s) = \max_{a} (R(s,a,s') + \gamma V^*(s'))$  So, for the starting states (1,1,1), (1,1,2), (1,1,3) and (1,1,4), the best action recommended at  $V^*$  values convergence is A3 (which costs the least [-0.5]).

This makes the agent fall in an infinite loop of rotating left while in the cell (1,1), as can be seen in figure 7.

Figure 6: Screenshot of Value Iteration results for reference

Figure 7: Path followed by agent for discount factor = 0.2 (infinite loop)

(Optional for 4420) Repeat part B, but this time with noise = 0.2, and gamma = 0.9 and no living reward. With a noise of 0.2, every time you take an action, the result will be the expected action with Probability 0.8 (80%), but 20% of the time, the robot will instead take a different action (taken randomly out of unexpected actions, with equal probability). If the action is impossible, it remains in the same cell.

For example, if we are in state (4,1,4), location (4,1) and facing right, and we take action  $A_1$  (moving one cell forward), the resulting state will be:

```
s'=(5,1,2) with probability 0.8 [because A_1 is rendered] s'=(4,1,4) with probability 0.2/3 [renders A_2 which is impossible] s'=(4,1,1) with probability 0.2/3 [because A_3 is rendered] s'=(4,1,2) with probability 0.2/3 [because A_4 is rendered]
```

Compare the results with that of the previous parts and explain observations.

Ans) The result of first 10 value iterations is attached at the end.

Click on the following hyperlink for result: Iteration Value Results

Refer to HW2\_F\_Charanjit\_Singh.py file for python code.

In the previous parts, there was no noise which meant the actions were executed with a probability of 1. As in this probabilistic case, there is a noise of 20%, there is a risk of falling in negative terminal state (4,4) which makes the agent skip the states (3,4,4) and (4,3,1) (which now have a negative  $V^*$ ).

```
V^*(3,4,4) = -20.56, V^*(4,3,1) = -35.27
```

Considering initial state as (1,1,4), the agent adopts a different path, via (3,1,4) to (5,1,1) It avoids going upwards as it will eventually come across (3,4,4). It avoids going through (4,1,1) as it will eventually come across (4,3,1).

So, it follows the safest option available to it which is guaranteed to give maximum expected utility. The path is shown in figure 8.

```
Policy Extraction with initial state: (1, 1, 4)
Current State: (1, 1, 4), Best Action: A2
Current State: (5, 1, 4), Best Action: A2
Current State: (5, 1, 1), Best Action: A2
Current State: (5, 3, 1), Best Action: A2
Current State: (5, 3, 1), Best Action: A2
Current State: (5, 3, 3), Best Action: A2
Current State: (3, 3, 3), Best Action: A2
Current State: (3, 3, 1), Best Action: A2
Current State: (3, 5, 1), Best Action: A2
Current State: (3, 5, 4), Best Action: A2
Final State: (5, 5, 4)

Process finished with exit code 0
```

Figure 8: Optimal path followed for discount factor = 0.9 and noise = 0.2

Markov I	Decision Process	- Value Iteratioi	n Algorithm

```
1 '''
 2 Code Introduction:
 3 The defined class MDP takes 2 positional arguments:
   Discount factor, Noise
 4 This class has the following inbuilt functions built
   in them:
 5 1. Transition Model: Takes current state and action
   as inputs and returns resulting state.
 6 2. q_value function: Takes state and action as inputs
    and returns a value
 7 3. value_iterations function: prints Q*(s,a) value
   for all states along with the best recommended action
 8 4. policy function: Takes current state as input and
  prints out the optimal path from current state to
   terminal state
 9 111
10
11 # Defining a class MDP which takes discount factor
   and noise as inputs
12 # i.e. inputs: 0 < Discount Factor, Noise < 1
13 class Mdp:
14
       def __init__(self, discount_factor, noise):
15
           self.discount_factor = discount_factor
16
           self.noise = noise
           self.actions = ["A1", "A2", "A3", "A4"]
17
           self.action_cost = {
18
               "A1": -1.5,
19
               "A2": -2,
20
21
               "A3": -0.5,
               "A4": -0.5
22
23
           }
24
           self.state_value = {}
25
           self.new_state_value_actions = {}
           self.states_best_actions = {}
26
           self.new_state_value = {}
27
28
29
       # Transition model which takes current state and
   action as inputs and returns resulting state
30
       # Input state in format (column, row, direction)
       # Input action as "Ai" where i = 1,2,3,4
31
       def transition_model(self, state, action):
32
```

```
column_initial, row_initial,
33
   direction_initial = state
34
35
           # Defining inaccessible states for agent
36
           blocked_states = [(2, 2), (2, 3), (3, 2)]
37
           blocked_moves = []
38
           for z, y in blocked_states:
               for i in [1, 2, 3, 4]:
39
40
                   blocked_moves.append((z,y,i))
41
42
           # returning initial state if agent tries to
   run in barriers
43
           if (column_initial, row_initial,
   direction_initial) in [(2, 5, 4), (3, 5, 3), (5, 3, 1
   ), (5, 4, 2)]:
44
               if action in ["A1", "A2"]:
45
                   return column_initial, row_initial,
   direction_initial
46
47
           # Assigning new direction to the agent
   depending on action A3 or A4
           rotating_actions = [1, 3, 2, 4, 1, 3, 2, 4]
48
49
           if action == "A3":
50
               direction = rotating_actions[
   rotating_actions.index(direction_initial)+1]
           elif action == "A4":
51
52
               direction = rotating_actions[
   rotating_actions.index(direction_initial)-1]
53
           else:
54
               direction = direction_initial
55
56
           # Defining the effect of actions A1 and A2 in
    initial direction 1/2/3/4
           steps = 1
57
58
           action_definition = {
               1: (column_initial, (row_initial+steps),
59
   direction),
               2: (column_initial, row_initial-steps,
60
   direction),
61
               3: ((column_initial-steps), row_initial,
   direction),
```

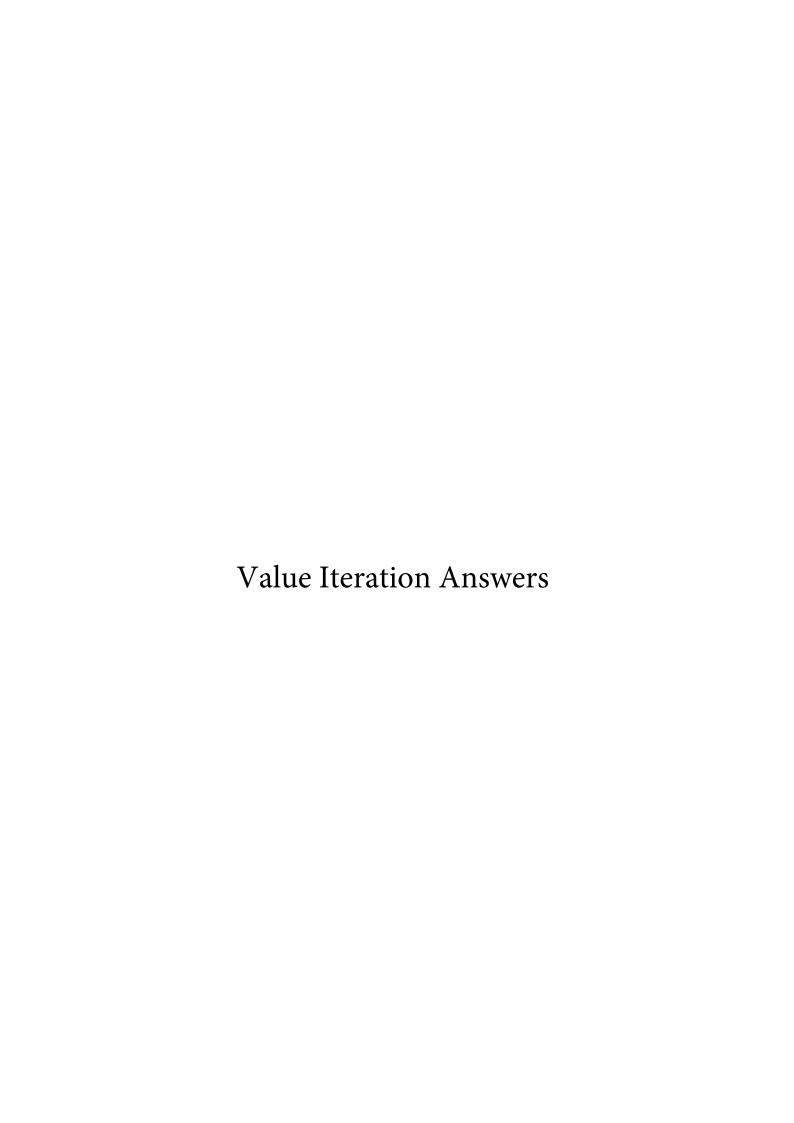
```
4: (column_initial+steps, row_initial,
62
   direction)
63
           }
64
65
           . . .
66
           Defining the number of steps agent should
   take in a particular action i.e.
67
           for A1, no. of steps = 1 in facing direction
           for A2, no. of steps = 2 in facing direction
68
69
           for A3 and A4, no steps
70
71
           if action == 'A1':
72
               steps = 1
73
           elif action == 'A2':
74
               (c, r, d) = action_definition[
   direction_initial
               if (c, r) in blocked_states or (c, r) in
75
    [(4, 4), (5, 5), (5, 3), (2, 5), (3, 5)]:
                   return column_initial, row_initial,
76
   direction_initial
77
               else:
78
                   steps = 2
79
           else:
80
               steps = 0
81
82
           # Updating the dictionary to according to
   the number of steps the agent should take
           action_definition = {
83
84
               1: (column_initial, (row_initial+steps
   ), direction),
85
               2: (column_initial, row_initial-steps,
   direction),
               3: ((column_initial-steps), row_initial
86
   , direction),
87
               4: (column_initial+steps, row_initial,
   direction)
88
           }
89
           # Assigning the appropriate resulting stage
   after factoring in the effect of action on initial
   state
           resulting_state = action_definition[
90
```

```
90 direction_initial]
 91
            (column, row, direction) = resulting_state
 92
 93
            # Filtering out the result in case action is
     making the agent fall out of the grid
 94
            if (resulting_state in blocked_moves) or row
     > 5 or column > 5 or row < 1 or column < 1:
 95
                return column_initial, row_initial,
    direction_initial
 96
            else:
 97
                return resulting_state
 98
        . . .
 99
100
        Function to calculate Q value, which returns the
     expected value of utility for a particular action a
     in
101
        a state s.
102
103
        def q_value(self, state, action):
            actions = ["A1", "A2", "A3", "A4"]
104
105
            actions.remove(action)
106
            qval = (1-self.noise)*(self.action_cost[
    action] +
107
                                    self.discount_factor*
    self.state_value[self.transition_model(state, action
    )])+\
108
            (self.noise/3)*(self.action_cost[actions[0
    ]] +
109
                             self.discount_factor*self.
    state_value[self.transition_model(state, actions[0
    ])])+\
            (self.noise/3)*(self.action_cost[actions[1
110
    ]] +
111
                             self.discount_factor*self.
    state_value[self.transition_model(state,actions[1
    ])])+\
112
            (self.noise/3)*(self.action_cost[actions[2
    ]] +
113
                             self.discount_factor*self.
    state_value[self.transition_model(state,actions[2
    ])])
```

```
114
            return qval
115
116
        # Defining a Value Iteration function which
    prints first 10 iterations and final values after
    100 iterations
        def value_iterations(self):
117
118
            states = []
            # Initializing the states list containing
119
   all states on the grid
            for i in [1, 2, 3, 4, 5]:
120
                for t in [1, 2, 3, 4, 5]:
121
                    for robot_direction in [1, 2, 3, 4]:
122
123
                         states.append((i, t,
    robot_direction))
124
125
            # Assign an initial value of 0 to all states
126
            for x in states:
127
                self.state_value[x] = 0
128
129
            # For terminal and blocked states, assign
    suitable values
130
            for col, ro, cost in [(4, 4, -1000), (5, 5,
    100), (2, 3, -100000), (2, 2, -100000), (3, 2, -
    100000)]:
                for d in [1, 2, 3, 4]:
131
132
                    self.state_value[col, ro, d] = cost
133
134
            # Value Iteration containing 100 iterations
135
            for i in range(100):
136
                if i < 10:
137
                    print(f'Iteration {i+1}:')
138
                for a, b, c in states:
139
                    # If state is blocked/terminal,
    value is fixed
140
                    if (a, b) in [(4, 4), (5, 5), (3, 2)
    ), (2, 2), (2, 3)]:
141
                        self.new_state_value_actions[a,
    b, c] = (self.state_value[a, b, c], "No Action")
                    # for accessible states, value
142
    should be updated in subsequent iterations
143
                    else:
```

```
self.new_state_value[a, b, c
144
    [ = [round(self.q_value((a, b, c), act), 2) for act
    in
145
           ["A1", "A2", "A3", "A4"]]
146
                        self.new_state_value_actions[a,
    b, c] = max(self.new_state_value[a, b, c]),\
                                 self.actions[(self.
147
    new_state_value[a, b, c]).index(max(self.
    new_state_value[a, b, c]))]
                    # Forming a dictionary
148
    states_best_actions to keep track of best action in
    a particular state
149
                    val, act = self.
    new_state_value_actions[a, b, c]
                    self.states_best_actions[(a,b,c)] =
150
    f'State {a,b,c} V = {val}
                                    Best Action: {act}'
                    # Updating the state value
151
    dictionary with new values
                    self.state_value[a, b, c] = val
152
153
                # Printing the first 10 value iterations
                if i < 10:
154
                    for key, value in self.
155
    states_best_actions.items():
156
                        print(value)
157
                i += 1
            print(f'\n(Values, Best Action) after 100
158
    iterations: {self.new_state_value_actions}')
159
        . . .
160
161
        Defining a policy function with input: current
    state
162
        It returns the optimal path to reach the
    terminal state from current state
163
        def policy(self, state):
164
            print(f"\nPolicy Extraction with initial
165
    state : {state}")
            (c, r, d) = state
166
            while (c, r) not in [(4, 4), (5, 5)]:
167
168
                (v, ac) = self.new_state_value_actions[(
```

```
File - C:\Users\chara\OneDrive\Desktop\MDP.py
168 c, r, d)]
                 print(f'Current State: {state}, Best
169
    Action: '
                        f'{self.actions[(self.
170
    new_state_value[c,r,d]).index(max(self.
    new_state_value[c,r,d]))]}')
171
                 state = self.transition_model((c, r, d
    ), ac)
                 (c, r, d) = state
172
             print(f'Final State: {state}')
173
174
175 # initialize a class instance: puzzle = Mdp(1, 0)
176 # print value iterations using puzzle.
    value_iterations()
177 # Print policy: puzzle.policy((1, 1, 4))
```



A D)	State (3, 1, 2) V = -1.5 Best Action: A3	State (5, 2, 2) V = -2.5 Best Action: A3	State (2, 3, 3) V = -100000 Best Action: No	State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 4) V = 88.5 Best Action: A2
Ans B) Iteration 1:	State (3, 1, 3) V = -2.0 Best Action: A3 State (3, 1, 4) V = -2.0 Best Action: A3	State (5, 2, 3) V = -3.0 Best Action: A3 State (5, 2, 4) V = -3.0 Best Action: A3	Action State (2, 3, 4) V = -100000 Best Action: No	Action State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No Action
State (1, 1, 1) V = -0.5 Best Action: A3 State (1, 1, 2) V = -0.5 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action	State (5, 3, 1) V = -2.5 Best Action: A3 State (5, 3, 2) V = -2.5 Best Action: A3	Action State (2, 4, 1) V = 93.5 Best Action: A4	Action State (4, 5, 1) V = 98.0 Best Action: A4	State (2, 2, 2) V = -100000 Best Action: No Action
State (1, 1, 3) V = -1.0 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 3) V = 93.0 Best Action: A2 State (5, 3, 4) V = -3.0 Best Action: A3	State (2, 4, 2) V = 93.5 Best Action: A3 State (2, 4, 3) V = 93.0 Best Action: A3	State (4, 5, 2) V = 98.0 Best Action: A3 State (4, 5, 3) V = 97.5 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No Action
State (1, 1, 4) V = -1.0 Best Action: A3 State (1, 2, 1) V = -0.5 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No Action	State (5, 4, 1) V = 98.5 Best Action: A1 State (5, 4, 2) V = 97.5 Best Action: A3	State (2, 4, 4) V = 94.0 Best Action: A1 State (2, 5, 1) V = -4.5 Best Action: A3	State (4, 5, 4) V = 98.5 Best Action: A1 State (5, 1, 1) V = 90.5 Best Action: A2	State (2, 2, 4) V = -100000 Best Action: No Action
State (1, 2, 2) V = -0.5 Best Action: A3 State (1, 2, 3) V = -1.0 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No Action	State (5, 4, 3) V = 98.0 Best Action: A4	State (2, 5, 2) V = 92.0 Best Action: A1	State (5, 1, 2) V = 89.5 Best Action: A3	State (2, 3, 1) V = -100000 Best Action: No
State (1, 2, 4) V = -1.0 Best Action: A3 State (1, 3, 1) V = -0.5 Best Action: A3	State (3, 3, 1) V = -1.5 Best Action: A3	State (5, 4, 4) V = 98.0 Best Action: A3  State (5, 5, 1) V = 100 Best Action: No Action  State (5, 5, 2) V = 100 Pest Action: No Action	State (2, 5, 3) V = 91.5 Best Action: A3 State (2, 5, 4) V = 91.5 Best Action: A4 State (2, 1, 1) V = 1.5 Best Action: A3	State (5, 1, 3) V = 90.0 Best Action: A4  State (5, 1, 4) V = 90.0 Best Action: A3	Action State (2, 3, 2) V = -100000 Best Action: No
State (1, 3, 2) V = -0.5 Best Action: A3 State (1, 3, 3) V = -1.0 Best Action: A3	State (3, 3, 2) V = -1.5 Best Action: A3 State (3, 3, 3) V = -2.0 Best Action: A3	State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 3) V = 100 Best Action: No Action	State (3, 1, 1) V = -4.5 Best Action: A3 State (3, 1, 2) V = -4.5 Best Action: A3	State (5, 2, 1) V = 91.0 Best Action: A1 State (5, 2, 2) V = 90.0 Best Action: A3	Action State (2, 3, 3) V = -100000 Best Action: No
State (1, 3, 4) V = -1.0 Best Action: A3 State (1, 4, 1) V = -0.5 Best Action: A3	State (3, 3, 4) V = -2.0 Best Action: A3 State (3, 4, 1) V = -1.5 Best Action: A3	State (5, 5, 4) V = 100 Best Action: No Action Iteration 4:	State (3, 1, 3) V = -5.0 Best Action: A3 State (3, 1, 4) V = -5.0 Best Action: A3	State (5, 2, 3) V = 90.5 Best Action: A4 State (5, 2, 4) V = 90.5 Best Action: A3	Action State (2, 3, 4) V = -100000 Best Action: No
State (1, 4, 2) V = -0.5 Best Action: A3 State (1, 4, 3) V = -1.0 Best Action: A3	State (3, 4, 2) V = -1.5 Best Action: A3 State (3, 4, 3) V = -2.0 Best Action: A3	State (1, 1, 1) V = -3.5 Best Action: A3 State (1, 1, 2) V = -3.5 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action	State (5, 3, 1) V = 92.5 Best Action: A3 State (5, 3, 2) V = 92.5 Best Action: A4	Action State (2, 4, 1) V = 93.5 Best Action: A4
State (1, 4, 4) V = -1.0 Best Action: A3 State (1, 5, 1) V = -0.5 Best Action: A3	State (3, 4, 4) V = -2.0 Best Action: A3 State (3, 5, 1) V = 97.5 Best Action: A4	State (1, 1, 3) V = -4.0 Best Action: A3 State (1, 1, 4) V = -4.0 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 3) V = 93.0 Best Action: A2 State (5, 3, 4) V = 92.0 Best Action: A3	State (2, 4, 2) V = 93.5 Best Action: A3 State (2, 4, 3) V = 93.0 Best Action: A3
State (1, 5, 2) V = -0.5 Best Action: A3 State (1, 5, 3) V = -1.0 Best Action: A3	State (3, 5, 2) V = 97.5 Best Action: A3 State (3, 5, 3) V = 97.0 Best Action: A3	State (1, 2, 1) V = -3.5 Best Action: A3 State (1, 2, 2) V = -3.5 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No Action	State (5, 4, 1) V = 98.5 Best Action: A1 State (5, 4, 2) V = 97.5 Best Action: A3	State (2, 4, 4) V = 94.0 Best Action: A1 State (2, 5, 1) V = 91.0 Best Action: A3
State (1, 5, 4) V = -1.0 Best Action: A3 State (2, 1, 1) V = -0.5 Best Action: A3	State (3, 5, 4) V = 98.0 Best Action: A2 State (4, 1, 1) V = -1.5 Best Action: A3	State (1, 2, 3) V = -4.0 Best Action: A3 State (1, 2, 4) V = -4.0 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No Action	State (5, 4, 3) V = 98.0 Best Action: A4 State (5, 4, 4) V = 98.0 Best Action: A3	State (2, 5, 2) V = 92.0 Best Action: A1 State (2, 5, 3) V = 91.5 Best Action: A3
State (2, 1, 2) V = -0.5 Best Action: A3 State (2, 1, 3) V = -1.0 Best Action: A3	State (4, 1, 2) V = -1.5 Best Action: A3 State (4, 1, 3) V = -2.0 Best Action: A3	State (1, 3, 1) V = -3.5 Best Action: A3 State (1, 3, 2) V = -3.5 Best Action: A3	State (3, 3, 1) V = 95.5 Best Action: A2 State (3, 3, 2) V = 94.5 Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action	State (2, 5, 4) V = 91.5 Best Action: A4 State (3, 1, 1) V = 88.5 Best Action: A4
State (2, 1, 4) V = -1.0 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No	State (4, 1, 4) V = -2.0 Best Action: A3 State (4, 2, 1) V = -1.5 Best Action: A3	State (1, 3, 3) V = -4.0 Best Action: A3 State (1, 3, 4) V = -4.0 Best Action: A3	State (3, 3, 3) V = 95.0 Best Action: A4 State (3, 3, 4) V = 95.0 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = 88.5 Best Action: A3 State (3, 1, 3) V = 88.0 Best Action: A3
Action State (2, 2, 2) V = -100000 Best Action: No	State (4, 2, 2) V = -1.5 Best Action: A3 State (4, 2, 3) V = -2.0 Best Action: A3	State (1, 4, 1) V = -3.5 Best Action: A3 State (1, 4, 2) V = -3.5 Best Action: A3	State (3, 4, 1) V = 96.0 Best Action: A1 State (3, 4, 2) V = 95.0 Best Action: A3	Iteration 7: State (1, 1, 1) V = 89.5 Best Action: A1	State (3, 1, 4) V = 89.0 Best Action: A1 State (3, 2, 1) V = -100000 Best Action: No
Action State (2, 2, 3) V = -100000 Best Action: No	State (4, 2, 4) V = -2.0 Best Action: A3 State (4, 3, 1) V = -1.5 Best Action: A3	State (1, 4, 3) V = -4.0 Best Action: A3 State (1, 4, 4) V = 93.5 Best Action: A2	State (3, 4, 3) V = 95.5 Best Action: A4 State (3, 4, 4) V = 95.5 Best Action: A3	State (1, 1, 2) V = -6.5 Best Action: A3 State (1, 1, 3) V = 89.0 Best Action: A4	Action State (3, 2, 2) V = -100000 Best Action: No
Action State (2, 2, 4) V = -100000 Best Action: No	State (4, 3, 2) V = -1.5 Best Action: A3 State (4, 3, 3) V = -2.0 Best Action: A3	State (1, 5, 1) V = -3.5 Best Action: A3 State (1, 5, 2) V = -3.5 Best Action: A3	State (3, 5, 1) V = 97.5 Best Action: A4 State (3, 5, 2) V = 97.5 Best Action: A3	State (1, 1, 4) V = 89.0 Best Action: A3 State (1, 2, 1) V = 91.0 Best Action: A2	Action State (3, 2, 3) V = -100000 Best Action: No
Action State (2, 3, 1) V = -100000 Best Action: No	State (4, 3, 4) V = -2.0 Best Action: A3 State (4, 4, 1) V = -1000 Best Action: No	State (1, 5, 3) V = -4.0 Best Action: A3 State (1, 5, 4) V = -4.0 Best Action: A3	State (3, 5, 3) V = 97.0 Best Action: A3 State (3, 5, 4) V = 98.0 Best Action: A2	State (1, 2, 2) V = 90.0 Best Action: A3 State (1, 2, 3) V = 90.5 Best Action: A4	Action State (3, 2, 4) V = -100000 Best Action: No
Action State (2, 3, 2) V = -100000 Best Action: No	Action State (4, 4, 2) V = -1000 Best Action: No	State (2, 1, 1) V = -3.5 Best Action: A3 State (2, 1, 2) V = -3.5 Best Action: A3	State (4, 1, 1) V = 91.0 Best Action: A2 State (4, 1, 2) V = -4.5 Best Action: A3	State (1, 2, 4) V = 90.5 Best Action: A3 State (1, 3, 1) V = 91.5 Best Action: A1	Action State (3, 3, 1) V = 95.5 Best Action: A2
Action State (2, 3, 3) V = -100000 Best Action: No	Action State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 3) V = -4.0 Best Action: A3 State (2, 1, 4) V = -4.0 Best Action: A3	State (4, 1, 3) V = 90.5 Best Action: A4 State (4, 1, 4) V = 90.5 Best Action: A3	State (1, 3, 2) V = 90.5 Best Action: A3 State (1, 3, 3) V = 91.0 Best Action: A4	State (3, 3, 2) V = 94.5 Best Action: A3 State (3, 3, 3) V = 95.0 Best Action: A4
Action State (2, 3, 4) V = -100000 Best Action: No	Action State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No Action	State (4, 2, 1) V = 91.5 Best Action: A1 State (4, 2, 2) V = -4.5 Best Action: A3	State (1, 3, 4) V = 91.0 Best Action: A3 State (1, 4, 1) V = 93.0 Best Action: A4	State (3, 3, 4) V = 95.0 Best Action: A3 State (3, 4, 1) V = 96.0 Best Action: A1
Action	Action State (4, 5, 1) V = 98.0 Best Action: A4	State (2, 2, 2) V = -100000 Best Action: No Action	State (4, 2, 3) V = 91.0 Best Action: A4 State (4, 2, 4) V = 91.0 Best Action: A3	State (1, 4, 2) V = 93.0 Best Action: A3 State (1, 4, 3) V = 92.5 Best Action: A3	State (3, 4, 2) V = 95.0 Best Action: A3 State (3, 4, 3) V = 95.5 Best Action: A4
State (2, 4, 1) V = -0.5 Best Action: A3 State (2, 4, 2) V = -0.5 Best Action: A3	State (4, 5, 2) V = 98.0 Best Action: A3 State (4, 5, 3) V = 97.5 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No Action	State (4, 3, 1) V = 93.0 Best Action: A3 State (4, 3, 2) V = 93.0 Best Action: A4	State (1, 4, 4) V = 93.5 Best Action: A2 State (1, 5, 1) V = 90.5 Best Action: A3	State (3, 4, 4) V = 95.5 Best Action: A3 State (3, 5, 1) V = 97.5 Best Action: A4
State (2, 4, 3) V = -1.0 Best Action: A3 State (2, 4, 4) V = -1.0 Best Action: A3	State (4, 5, 4) V = 98.5 Best Action: A1 State (5, 1, 1) V = -1.5 Best Action: A3	State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 3) V = 93.5 Best Action: A1 State (4, 3, 4) V = 92.5 Best Action: A3	State (1, 5, 2) V = 91.5 Best Action: A1 State (1, 5, 3) V = 91.0 Best Action: A3	State (3, 5, 2) V = 97.5 Best Action: A3 State (3, 5, 3) V = 97.0 Best Action: A3
State (2, 5, 1) V = -0.5 Best Action: A3 State (2, 5, 2) V = -0.5 Best Action: A3	State (5, 1, 2) V = -1.5 Best Action: A3	State (2, 3, 1) V = -100000 Best Action: No	State (4, 4, 1) V = -1000 Best Action: No	State (1, 5, 4) V = 91.0 Best Action: A4	State (3, 5, 4) V = 98.0 Best Action: A2
State (2, 5, 3) V = -1.0 Best Action: A3 State (2, 5, 4) V = -1.0 Best Action: A3	State (5, 1, 3) V = -2.0 Best Action: A3 State (5, 1, 4) V = -2.0 Best Action: A3	Action State (2, 3, 2) V = -100000 Best Action: No	Action State (4, 4, 2) V = -1000 Best Action: No	State (2, 1, 1) V = 88.0 Best Action: A4 State (2, 1, 2) V = 88.0 Best Action: A3	State (4, 1, 1) V = 91.0 Best Action: A2 State (4, 1, 2) V = 90.0 Best Action: A3
State (3, 1, 1) V = -0.5 Best Action: A3 State (3, 1, 2) V = -0.5 Best Action: A3	State (5, 2, 1) V = -1.5 Best Action: A3 State (5, 2, 2) V = -1.5 Best Action: A3	Action State (2, 3, 3) V = -100000 Best Action: No	Action State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 3) V = 87.5 Best Action: A1 State (2, 1, 4) V = 88.5 Best Action: A2	State (4, 1, 3) V = 90.5 Best Action: A4 State (4, 1, 4) V = 90.5 Best Action: A3
State (3, 1, 3) V = -1.0 Best Action: A3 State (3, 1, 4) V = -1.0 Best Action: A3	State (5, 2, 3) V = -2.0 Best Action: A3 State (5, 2, 4) V = -2.0 Best Action: A3	Action State (2, 3, 4) V = -100000 Best Action: No	Action State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No Action	State (4, 2, 1) V = 91.5 Best Action: A1 State (4, 2, 2) V = 90.5 Best Action: A3
State (3, 2, 1) V = -100000 Best Action: No Action	State (5, 3, 1) V = -1.5 Best Action: A3 State (5, 3, 2) V = -1.5 Best Action: A3	Action State (2, 4, 1) V = -3.5 Best Action: A3	Action State (4, 5, 1) V = 98.0 Best Action: A4	State (2, 2, 2) V = -100000 Best Action: No Action	State (4, 2, 3) V = 91.0 Best Action: A4 State (4, 2, 4) V = 91.0 Best Action: A3
State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 3) V = -2.0 Best Action: A3 State (5, 3, 4) V = -2.0 Best Action: A3	State (2, 4, 2) V = -3.5 Best Action: A3 State (2, 4, 3) V = -4.0 Best Action: A3	State (4, 5, 2) V = 98.0 Best Action: A3 State (4, 5, 3) V = 97.5 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No Action	State (4, 3, 1) V = 93.0 Best Action: A3 State (4, 3, 2) V = 93.0 Best Action: A4
State (3, 2, 3) V = -100000 Best Action: No Action	State (5, 4, 1) V = 98.5 Best Action: A1 State (5, 4, 2) V = 97.5 Best Action: A3	State (2, 4, 4) V = 94.0 Best Action: A1 State (2, 5, 1) V = -3.5 Best Action: A3	State (4, 5, 4) V = 98.5 Best Action: A1 State (5, 1, 1) V = 90.5 Best Action: A2	State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 3) V = 93.5 Best Action: A1 State (4, 3, 4) V = 92.5 Best Action: A3
State (3, 2, 4) V = -100000 Best Action: No Action	State (5, 4, 3) V = 98.0 Best Action: A4 State (5, 4, 4) V = 98.0 Best Action: A3	State (2, 5, 2) V = -3.5 Best Action: A3 State (2, 5, 3) V = -4.0 Best Action: A3	State (5, 1, 2) V = -4.5 Best Action: A3 State (5, 1, 3) V = 90.0 Best Action: A4	State (2, 3, 1) V = -100000 Best Action: No Action	State (4, 4, 1) V = -1000 Best Action: No Action
State (3, 3, 1) V = -0.5 Best Action: A3 State (3, 3, 2) V = -0.5 Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action	State (2, 5, 4) V = -4.0 Best Action: A3 State (3, 1, 1) V = -3.5 Best Action: A3	State (5, 1, 4) V = 90.0 Best Action: A3 State (5, 2, 1) V = 91.0 Best Action: A1	State (2, 3, 2) V = -100000 Best Action: No Action	State (4, 4, 2) V = -1000 Best Action: No Action
State (3, 3, 3) V = -1.0 Best Action: A3 State (3, 3, 4) V = -1.0 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = -3.5 Best Action: A3 State (3, 1, 3) V = -4.0 Best Action: A3	State (5, 2, 2) V = -4.5 Best Action: A3 State (5, 2, 3) V = 90.5 Best Action: A4	State (2, 3, 3) V = -100000 Best Action: No Action	State (4, 4, 3) V = -1000 Best Action: No Action
State (3, 4, 1) V = -0.5 Best Action: A3 State (3, 4, 2) V = -0.5 Best Action: A3	Iteration 3: State (1, 1, 1) V = -2.5 Best Action: A3	State (3, 1, 4) V = -4.0 Best Action: A3 State (3, 2, 1) V = -100000 Best Action: No	State (5, 2, 4) V = 90.5 Best Action: A3 State (5, 3, 1) V = 92.5 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No Action	State (4, 4, 4) V = -1000 Best Action: No Action
State (3, 4, 4) V = -1.0 Best Action: A3 State (3, 4, 4) V = -1.0 Best Action: A3	State (1, 1, 2) V = -2.5 Best Action: A3 State (1, 1, 3) V = -3.0 Best Action: A3	Action State (3, 2, 2) V = -100000 Best Action: No	State (5, 3, 2) V = 92.5 Best Action: A4 State (5, 3, 3) V = 93.0 Best Action: A2	State (2, 4, 1) V = 93.5 Best Action: A4 State (2, 4, 2) V = 93.5 Best Action: A3	State (4, 5, 1) V = 98.0 Best Action: A4 State (4, 5, 2) V = 98.0 Best Action: A3
State (3, 5, 1) V = -0.5 Best Action: A3	State (1, 1, 4) V = -3.0 Best Action: A3 State (1, 2, 1) V = -2.5 Best Action: A3	Action State (3, 2, 3) V = -100000 Best Action: No	State (5, 3, 4) V = 92.0 Best Action: A3 State (5, 4, 1) V = 98.5 Best Action: A1	State (2, 4, 3) V = 93.0 Best Action: A3 State (2, 4, 4) V = 94.0 Best Action: A1	State (4, 5, 3) V = 97.5 Best Action: A3 State (4, 5, 4) V = 98.5 Best Action: A1
State (3, 5, 2) V = -0.5 Best Action: A3 State (3, 5, 3) V = -1.0 Best Action: A3	State (1, 2, 3) V = -2.5 Best Action: A3 State (1, 2, 3) V = -3.0 Best Action: A3	Action State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 2) V = 97.5 Best Action: A3 State (5, 4, 3) V = 98.0 Best Action: A4	State (2, 5, 1) V = 91.0 Best Action: A3 State (2, 5, 2) V = 92.0 Best Action: A1	State (5, 1, 1) V = 90.5 Best Action: A2 State (5, 1, 2) V = 89.5 Best Action: A3
State (3, 5, 4) V = 98.0 Best Action: A2 State (4, 1, 1) V = -0.5 Best Action: A3	State (1, 2, 4) V = -3.0 Best Action: A3	Action	State (5, 4, 4) V = 98.0 Best Action: A4  State (5, 4, 4) V = 100 Best Action: No Action	State (2, 5, 3) V = 91.5 Best Action: A3 State (2, 5, 4) V = 91.5 Best Action: A4	State (5, 1, 3) V = 90.0 Best Action: A4
State (4, 1, 2) V = -0.5 Best Action: A3 State (4, 1, 3) V = -1.0 Best Action: A3	State (1, 3, 1) V = -2.5 Best Action: A3 State (1, 3, 2) V = -2.5 Best Action: A3 State (1, 3, 2) V = -3.0 Best Action: A3	State (3, 3, 1) V = 95.5 Best Action: A2 State (3, 3, 2) V = 94.5 Best Action: A3	State (5, 5, 2) V = 100 Best Action: No Action	State (3, 1, 1) V = 88.5 Best Action: A4	State (5, 1, 4) V = 90.0 Best Action: A3 State (5, 2, 1) V = 91.0 Best Action: A1
State (4, 1, 4) V = -1.0 Best Action: A3 State (4, 2, 1) V = -0.5 Best Action: A3	State (1, 3, 3) V = -3.0 Best Action: A3 State (1, 3, 4) V = -3.0 Best Action: A3	State (3, 3, 3) V = 95.0 Best Action: A4 State (3, 3, 4) V = 95.0 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = 88.5 Best Action: A3 State (3, 1, 3) V = 88.0 Best Action: A3	State (5, 2, 2) V = 90.0 Best Action: A3 State (5, 2, 3) V = 90.5 Best Action: A4
State (4, 2, 2) V = -0.5 Best Action: A3 State (4, 2, 3) V = -1.0 Best Action: A3	State (1, 4, 1) V = -2.5 Best Action: A3 State (1, 4, 2) V = -2.5 Best Action: A3	State (3, 4, 1) V = 96.0 Best Action: A1 State (3, 4, 2) V = 95.0 Best Action: A3	Iteration 6: State (1, 1, 1) V = -5.5 Best Action: A3	State (3, 1, 4) V = 89.0 Best Action: A1 State (3, 2, 1) V = -100000 Best Action: No	State (5, 2, 4) V = 90.5 Best Action: A3 State (5, 3, 1) V = 92.5 Best Action: A3
State (4, 2, 4) V = -1.0 Best Action: A3 State (4, 3, 1) V = -0.5 Best Action: A3	State (1, 4, 3) V = -3.0 Best Action: A3 State (1, 4, 4) V = -3.0 Best Action: A3	State (3, 4, 3) V = 95.5 Best Action: A4 State (3, 4, 4) V = 95.5 Best Action: A3	State $(1, 1, 2) \lor = -5.5$ Best Action: A3 State $(1, 1, 3) \lor = -6.0$ Best Action: A3	Action State (3, 2, 2) V = -100000 Best Action: No	State (5, 3, 2) V = 92.5 Best Action: A4 State (5, 3, 3) V = 93.0 Best Action: A2
State (4, 3, 2) V = -0.5 Best Action: A3 State (4, 3, 3) V = -1.0 Best Action: A3	State (1, 5, 1) V = -2.5 Best Action: A3  State (1, 5, 2) V = -2.5 Best Action: A3  State (1, 5, 2) V = -2.0 Best Action: A3	State (3, 5, 1) V = 97.5 Best Action: A4  State (3, 5, 2) V = 97.5 Best Action: A3	State $(1, 1, 4) \lor = -6.0$ Best Action: A3 State $(1, 2, 1) \lor = 91.0$ Best Action: A2	Action State (3, 2, 3) V = -100000 Best Action: No	State (5, 4, 1) V = 92.0 Best Action: A3 State (5, 4, 1) V = 98.5 Best Action: A1
State (4, 3, 4) V = -1.0 Best Action: A3 State (4, 4, 1) V = -1000 Best Action: No	State (1, 5, 3) V = -3.0 Best Action: A3 State (1, 5, 4) V = -3.0 Best Action: A3	State (3, 5, 3) V = 97.0 Best Action: A3 State (3, 5, 4) V = 98.0 Best Action: A2	State (1, 2, 2) V = -5.5 Best Action: A3 State (1, 2, 3) V = 90.5 Best Action: A4	Action State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 2) V = 97.5 Best Action: A3 State (5, 4, 3) V = 98.0 Best Action: A4
Action State (4, 4, 2) V = -1000 Best Action: No	State (2, 1, 1) V = -2.5 Best Action: A3 State (2, 1, 2) V = -2.5 Best Action: A3	State (4, 1, 1) V = -3.5 Best Action: A3 State (4, 1, 2) V = -3.5 Best Action: A3	State (1, 2, 4) V = 90.5 Best Action: A3 State (1, 3, 1) V = 91.5 Best Action: A1	Action State (3, 3, 1) V = 95.5 Best Action: A2	State (5, 4, 4) V = 98.0 Best Action: A3 State (5, 5, 1) V = 100 Best Action: No Action
Action State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 3) V = -3.0 Best Action: A3 State (2, 1, 4) V = -3.0 Best Action: A3	State (4, 1, 3) V = -4.0 Best Action: A3 State (4, 1, 4) V = -4.0 Best Action: A3	State (1, 3, 2) V = -5.5 Best Action: A3 State (1, 3, 3) V = 91.0 Best Action: A4	State (3, 3, 2) V = 94.5 Best Action: A3 State (3, 3, 3) V = 95.0 Best Action: A4	State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 3) V = 100 Best Action: No Action
Action State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No Action	State (4, 2, 1) V = -3.5 Best Action: A3 State (4, 2, 2) V = -3.5 Best Action: A3	State (1, 3, 4) V = 91.0 Best Action: A3 State (1, 4, 1) V = 93.0 Best Action: A4	State (3, 3, 4) V = 95.0 Best Action: A3 State (3, 4, 1) V = 96.0 Best Action: A1	State (5, 5, 4) V = 100 Best Action: No Action Iteration 9:
Action State (4, 5, 1) V = -0.5 Best Action: A3	State (2, 2, 2) V = -100000 Best Action: No Action	State (4, 2, 3) V = -4.0 Best Action: A3 State (4, 2, 4) V = -4.0 Best Action: A3	State (1, 4, 2) V = 93.0 Best Action: A3 State (1, 4, 3) V = 92.5 Best Action: A3	State (3, 4, 2) V = 95.0 Best Action: A3 State (3, 4, 3) V = 95.5 Best Action: A4	State (1, 1, 1) V = 89.5 Best Action: A1 State (1, 1, 2) V = 88.5 Best Action: A3
State (4, 5, 2) V = -0.5 Best Action: A3 State (4, 5, 3) V = -1.0 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No Action	State (4, 3, 1) V = 93.0 Best Action: A3 State (4, 3, 2) V = 93.0 Best Action: A4	State (1, 4, 4) V = 93.5 Best Action: A2 State (1, 5, 1) V = 90.5 Best Action: A3	State (3, 4, 4) V = 95.5 Best Action: A3 State (3, 5, 1) V = 97.5 Best Action: A4	State (1, 1, 3) V = 89.0 Best Action: A4 State (1, 1, 4) V = 89.0 Best Action: A3
State (4, 5, 4) V = 98.5 Best Action: A1 State (5, 1, 1) V = -0.5 Best Action: A3	State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 3) V = 93.5 Best Action: A1 State (4, 3, 4) V = 92.5 Best Action: A3	State (1, 5, 2) V = 91.5 Best Action: A1 State (1, 5, 3) V = 91.0 Best Action: A3	State (3, 5, 2) V = 97.5 Best Action: A3 State (3, 5, 3) V = 97.0 Best Action: A3	State (1, 2, 1) V = 91.0 Best Action: A2 State (1, 2, 2) V = 90.0 Best Action: A3
State (5, 1, 2) V = -0.5 Best Action: A3 State (5, 1, 3) V = -1.0 Best Action: A3	State (2, 3, 1) V = -100000 Best Action: No Action	State (4, 4, 1) V = -1000 Best Action: No Action	State (1, 5, 4) V = 91.0 Best Action: A4 State (2, 1, 1) V = -5.5 Best Action: A3	State (3, 5, 4) V = 98.0 Best Action: A2 State (4, 1, 1) V = 91.0 Best Action: A2	State (1, 2, 3) V = 90.5 Best Action: A4 State (1, 2, 4) V = 90.5 Best Action: A3
State (5, 1, 4) V = -1.0 Best Action: A3 State (5, 2, 1) V = -0.5 Best Action: A3	State (2, 3, 2) V = -100000 Best Action: No Action	State (4, 4, 2) V = -1000 Best Action: No Action	State (2, 1, 2) V = -5.5 Best Action: A3 State (2, 1, 3) V = -6.0 Best Action: A3	State (4, 1, 2) V = 90.0 Best Action: A3 State (4, 1, 3) V = 90.5 Best Action: A4	State (1, 3, 1) V = 91.5 Best Action: A1 State (1, 3, 2) V = 90.5 Best Action: A3
State (5, 2, 2) V = -0.5 Best Action: A3 State (5, 2, 3) V = -1.0 Best Action: A3	State (2, 3, 3) V = -100000 Best Action: No Action	State (4, 4, 3) V = -1000 Best Action: No Action	State (2, 1, 4) V = 88.5 Best Action: A2 State (2, 2, 1) V = -100000 Best Action: No	State (4, 1, 4) V = 90.5 Best Action: A3 State (4, 2, 1) V = 91.5 Best Action: A1	State (1, 3, 3) V = 91.0 Best Action: A4 State (1, 3, 4) V = 91.0 Best Action: A3
State (5, 2, 4) V = -1.0 Best Action: A3 State (5, 3, 1) V = -0.5 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No Action	State (4, 4, 4) V = -1000 Best Action: No Action	Action State (2, 2, 2) V = -100000 Best Action: No	State (4, 2, 2) V = 90.5 Best Action: A3 State (4, 2, 3) V = 91.0 Best Action: A4	State (1, 4, 1) V = 93.0 Best Action: A4 State (1, 4, 2) V = 93.0 Best Action: A3
State (5, 3, 2) V = -0.5 Best Action: A3 State (5, 3, 3) V = -1.0 Best Action: A3	State (2, 4, 1) V = -2.5 Best Action: A3 State (2, 4, 2) V = -2.5 Best Action: A3	State (4, 5, 1) V = 98.0 Best Action: A4 State (4, 5, 2) V = 98.0 Best Action: A3	Action State (2, 2, 3) V = -100000 Best Action: No	State (4, 2, 4) V = 91.0 Best Action: A3 State (4, 3, 1) V = 93.0 Best Action: A3	State (1, 4, 3) V = 92.5 Best Action: A3 State (1, 4, 4) V = 93.5 Best Action: A2
State (5, 3, 4) V = -1.0 Best Action: A3 State (5, 4, 1) V = 98.5 Best Action: A1	State (2, 4, 3) V = -3.0 Best Action: A3 State (2, 4, 4) V = -3.0 Best Action: A3	State (4, 5, 3) V = 97.5 Best Action: A3 State (4, 5, 4) V = 98.5 Best Action: A1	Action State (2, 2, 4) V = -100000 Best Action: No	State (4, 3, 2) V = 93.0 Best Action: A4 State (4, 3, 3) V = 93.5 Best Action: A1	State (1, 5, 1) V = 90.5 Best Action: A3 State (1, 5, 2) V = 91.5 Best Action: A1
State (5, 4, 2) V = -0.5 Best Action: A3 State (5, 4, 3) V = 98.0 Best Action: A4	State (2, 5, 1) V = -2.5 Best Action: A3 State (2, 5, 2) V = -2.5 Best Action: A3	State (5, 1, 1) V = -3.5 Best Action: A3 State (5, 1, 2) V = -3.5 Best Action: A3	Action State (2, 3, 1) V = -100000 Best Action: No	State (4, 3, 4) V = 92.5 Best Action: A3 State (4, 4, 1) V = -1000 Best Action: No	State (1, 5, 3) V = 91.0 Best Action: A3 State (1, 5, 4) V = 91.0 Best Action: A4
State (5, 4, 4) V = 98.0 Best Action: A3 State (5, 5, 1) V = 100 Best Action: No Action	State (2, 5, 3) V = -3.0 Best Action: A3 State (2, 5, 4) V = -3.0 Best Action: A3	State (5, 1, 3) V = -4.0 Best Action: A3 State (5, 1, 4) V = -4.0 Best Action: A3	Action State (2, 3, 2) V = -100000 Best Action: No	Action State (4, 4, 2) V = -1000 Best Action: No	State (2, 1, 1) V = 88.0 Best Action: A4 State (2, 1, 2) V = 88.0 Best Action: A3
State (5, 5, 2) V = 100 Best Action: No Action  State (5, 5, 2) V = 100 Best Action: No Action  State (5, 5, 3) V = 100 Best Action: No Action	State (3, 1, 1) V = -2.5  State (3, 1, 2) V = -2.5  Best Action: A3  State (3, 1, 2) V = -2.5  Best Action: A3	State (5, 2, 1) V = -3.5 Best Action: A3 State (5, 2, 2) V = -3.5 Best Action: A3	Action State (2, 3, 3) V = -100000 Best Action: No	Action State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 3) V = 87.5 Best Action: A1 State (2, 1, 4) V = 88.5 Best Action: A2
State (5, 5, 4) V = 100 Best Action: No Action Iteration 2:	State (3, 1, 3) V = -3.0 Best Action: A3 State (3, 1, 4) V = -3.0 Best Action: A3	State (5, 2, 3) V = -4.0 Best Action: A3 State (5, 2, 4) V = -4.0 Best Action: A3	Action State (2, 3, 4) V = -100000 Best Action: No	Action State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No Action
State (1, 1, 1) V = -1.5 Best Action: A3 State (1, 1, 2) V = -1.5 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action	State (5, 3, 1) V = 92.5 Best Action: A3 State (5, 3, 2) V = 92.5 Best Action: A4	Action State (2, 4, 1) V = 93.5 Best Action: A4	Action State (4, 5, 1) V = 98.0 Best Action: A4	State (2, 2, 2) V = -100000 Best Action: No Action
State (1, 1, 2) V = -1.5 Best Action: A3  State (1, 1, 3) V = -2.0 Best Action: A3  State (1, 1, 4) V = -2.0 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 3) V = 93.0 Best Action: A2 State (5, 3, 4) V = 92.0 Best Action: A3	State (2, 4, 2) V = 93.5 Best Action: A3 State (2, 4, 3) V = 93.0 Best Action: A3	State (4, 5, 2) V = 98.0 Best Action: A3 State (4, 5, 3) V = 97.5 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No Action
State (1, 2, 1) V = -1.5 Best Action: A3  State (1, 2, 2) V = -1.5 Best Action: A3  State (1, 2, 2) V = -1.5 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No Action	State (5, 4, 1) V = 98.5 Best Action: A1 State (5, 4, 2) V = 97.5 Best Action: A3	State (2, 4, 4) V = 94.0 Best Action: A1 State (2, 5, 1) V = 91.0 Best Action: A3	State (4, 5, 4) V = 98.5 Best Action: A1 State (5, 1, 1) V = 90.5 Best Action: A2	State (2, 2, 4) V = -100000 Best Action: No Action
State (1, 2, 3) V = -1.5 Best Action: A3  State (1, 2, 3) V = -2.0 Best Action: A3  State (1, 2, 4) V = -2.0 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No Action	State (5, 4, 3) V = 98.0 Best Action: A4 State (5, 4, 4) V = 98.0 Best Action: A3	State (2, 5, 2) V = 92.0 Best Action: A1 State (2, 5, 3) V = 91.5 Best Action: A3	State (5, 1, 2) V = 89.5 Best Action: A3 State (5, 1, 3) V = 90.0 Best Action: A4	State (2, 3, 1) V = -100000 Best Action: No Action
State (1, 3, 1) V = -1.5 Best Action: A3	State (3, 3, 1) V = 95.5 Best Action: A2 State (3, 3, 2) V = -2.5 Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action	State (2, 5, 4) V = 91.5 Best Action: A4 State (3, 1, 1) V = -5.5 Best Action: A3	State (5, 1, 4) V = 90.0 Best Action: A3 State (5, 2, 1) V = 91.0 Best Action: A1	State (2, 3, 2) V = -100000 Best Action: No Action
State (1, 3, 2) V = -1.5 Best Action: A3  State (1, 3, 3) V = -2.0 Best Action: A3  State (1, 3, 4) V = -2.0 Best Action: A3	State (3, 3, 3) V = -2.5 Best Action: A3  State (3, 3, 3) V = 95.0 Best Action: A4  State (3, 3, 4) V = 95.0 Best Action: A3	State (5, 5, 2) V = 100 Best Action: No Action  State (5, 5, 3) V = 100 Best Action: No Action  State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 1) V = -5.5 Best Action: A3  State (3, 1, 2) V = -5.5 Best Action: A3  State (3, 1, 3) V = -6.0 Best Action: A3	State (5, 2, 2) V = 91.0 Best Action: A1  State (5, 2, 2) V = 90.0 Best Action: A3  State (5, 2, 3) V = 90.5 Best Action: A4	State (2, 3, 3) V = -100000 Best Action: No Action
State (1, 4, 1) V = -1.5 Best Action: A3	State (3, 4, 1) V = 96.0 Best Action: A1 State (3, 4, 2) V = -2.5 Best Action: A3	Iteration 5: State (1, 1, 1) V = -4.5 Best Action: A3	State (3, 1, 4) V = 89.0 Best Action: A1 State (3, 2, 1) V = -100000 Best Action: No	State (5, 2, 4) V = 90.5 Best Action: A3 State (5, 3, 1) V = 92.5 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No Action
State (1, 4, 2) V = -1.5 Best Action: A3 State (1, 4, 3) V = -2.0 Best Action: A3  Casta (4, 4, 4) V = 2.0 Best Action: A3	State (3, 4, 3) V = 95.5 Best Action: A4 State (3, 4, 4) V = 95.5 Best Action: A3	State (1, 1, 2) V = -4.5 Best Action: A3 State (1, 1, 3) V = -5.0 Best Action: A3	Action State (3, 2, 2) V = -100000 Best Action: No	State (5, 3, 2) V = 92.5 Best Action: A4 State (5, 3, 3) V = 93.0 Best Action: A2	State (2, 4, 1) V = 93.5 Best Action: A4 State (2, 4, 2) V = 93.5 Best Action: A3
State (1, 4, 4) V = -2.0 Best Action: A3 State (1, 5, 1) V = -1.5 Best Action: A3 State (1, 5, 2) V = -1.5 Best Action: A3	State (3, 4, 4) V = 95.5 Best Action: A3 State (3, 5, 1) V = 97.5 Best Action: A4	State (1, 1, 3) V = -5.0 Best Action: A3  State (1, 1, 4) V = -5.0 Best Action: A3  State (1, 2, 1) V = -4.5 Best Action: A3	Action State (3, 2, 2) V = -100000 Best Action: No State (3, 2, 3) V = -100000 Best Action: No	State (5, 3, 4) V = 93.0 Best Action: A2  State (5, 3, 4) V = 92.0 Best Action: A3  State (5, 4, 1) V = 98.5 Best Action: A1	State (2, 4, 2) V = 93.5 Best Action: A3  State (2, 4, 3) V = 93.0 Best Action: A3  State (2, 4, 4) V = 94.0 Best Action: A1
State (1, 5, 3) V = -2.0 Best Action: A3			Action	State (5, 4, 2) V = 97.5 Best Action: A3	State (2, 5, 1) V = 91.0 Best Action: A3 State (2, 5, 2) V = 92.0 Best Action: A1
State (1, 5, 4) V = -2.0 Best Action: A3 State (2, 1, 1) V = -1.5 Best Action: A3 State (1, 1, 2) V = 1.5 Best Action: A3	State (3, 5, 2) V = 97.5 Best Action: A3 State (3, 5, 3) V = 97.0 Best Action: A3	State (1, 2, 2) V = -4.5 Best Action: A3 State (1, 2, 3) V = -5.0 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 3) V = 98.0 Best Action: A4	
State (2, 1, 2) V = -1.5 Best Action: A3	State (3, 5, 2) V = 97.5 Best Action: A3 State (3, 5, 3) V = 98.0 Best Action: A2 State (4, 1, 1) V = -2.5 Best Action: A3	State (1, 2, 3) V = -5.0 Best Action: A3 State (1, 2, 4) V = -5.0 Best Action: A3	Action	State (5, 4, 4) V = 98.0 Best Action: A3	State (2, 5, 3) V = 91.5 Best Action: A3
State (2, 1, 3) V = -2.0 Best Action: A3	State (3, 5, 2) V = 97.5 Best Action: A3 State (3, 5, 3) V = 97.0 Best Action: A3 State (3, 5, 4) V = 98.0 Best Action: A2 State (4, 1, 2) V = -2.5 Best Action: A3 State (4, 1, 3) V = -3.0 Best Action: A3	State (1, 2, 3) V = -5.0 Best Action: A3 State (1, 2, 4) V = -5.0 Best Action: A3 State (1, 3, 1) V = -4.5 Best Action: A3 State (1, 3, 2) V = -4.5 Best Action: A3	Action State (3, 3, 1) V = 95.5 Best Action: A2 State (3, 3, 2) V = 94.5 Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action	State (2, 5, 3) V = 91.5 Best Action: A3 State (2, 5, 4) V = 91.5 Best Action: A4 State (3, 1, 1) V = 88.5 Best Action: A4
State (2, 1, 4) V = -2.0 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No	State (3, 5, 2) V = 97.5  State (3, 5, 3) V = 97.0  State (3, 5, 4) V = 98.0  State (4, 1, 1) V = -2.5  State (4, 1, 2) V = -2.5  State (4, 1, 3) V = -3.0  State (4, 1, 4) V = -3.0  State (4, 1, 4) V = -3.0  State (4, 1, 4) V = -3.0  State (4, 2, 1) V = -2.5  Best Action: A3  State (4, 2, 1) V = -2.5  Best Action: A3  State (4, 2, 1) V = -2.5  Best Action: A3	State (1, 2, 3) V = -5.0 Best Action: A3 State (1, 2, 4) V = -5.0 Best Action: A3 State (1, 3, 1) V = -4.5 Best Action: A3 State (1, 3, 2) V = -4.5 Best Action: A3 State (1, 3, 3) V = -5.0 Best Action: A3 State (1, 3, 4) V = -5.0 Best Action: A3	Action  State (3, 3, 1) V = 95.5  State (3, 3, 2) V = 94.5  State (3, 3, 3) V = 95.0  State (3, 3, 4) V = 95.0  Best Action: A4  State (3, 3, 4) V = 95.0  Best Action: A3	State (5, 5, 1) V = 100         Best Action: No Action           State (5, 5, 2) V = 100         Best Action: No Action           State (5, 5, 3) V = 100         Best Action: No Action           State (5, 5, 4) V = 100         Best Action: No Action	State (2, 5, 3) V = 91.5 Best Action: A3 State (2, 5, 4) V = 91.5 Best Action: A4 State (3, 1, 1) V = 88.5 Best Action: A4 State (3, 1, 2) V = 88.5 Best Action: A3 State (3, 1, 3) V = 88.0 Best Action: A3
State (2, 1, 4) V = -2.0 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No Action State (2, 2, 2) V = -100000 Best Action: No	State (3, 5, 2) V = 97.5  State (3, 5, 4) V = 97.0  State (3, 5, 4) V = 98.0  State (4, 1, 1) V = -2.5  State (4, 1, 2) V = -2.5  State (4, 1, 3) V = -3.0  State (4, 1, 4) V = -3.0  State (4, 2, 1) V = -2.5  State (4, 2, 2) V = -2.5  State (4, 2, 3) V = -3.0  State (4, 2, 3) V = -3.0  State (4, 2, 2) V = -3.0  State (4, 2, 3) V = -3.0	State (1, 2, 3) V = -5.0 Best Action: A3 State (1, 3, 1) V = -5.0 Best Action: A3 State (1, 3, 1) V = -4.5 Best Action: A3 State (1, 3, 2) V = -4.5 Best Action: A3 State (1, 3, 3) V = -5.0 Best Action: A3 State (1, 4, 1) V = -5.0 Best Action: A3 State (1, 4, 1) V = 93.0 Best Action: A3 State (1, 4, 1) V = 93.0 Best Action: A3	Action  State (3, 3, 1) V = 95.5  State (3, 3, 2) V = 94.5  State (3, 3, 3) V = 95.0  State (3, 3, 4) V = 95.0  State (3, 4, 1) V = 96.0  State (3, 4, 2) V = 95.0  Best Action: A1  State (3, 4, 2) V = 95.0  Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action Iteration 8:  State (1, 1, 1) V = 89.5 Best Action: A1	State (2, 5, 4) V = 91.5 Best Action: A3 State (2, 5, 4) V = 91.5 Best Action: A4 State (3, 1, 1) V = 88.5 Best Action: A4 State (3, 1, 2) V = 88.5 Best Action: A3 State (3, 1, 3) V = 88.0 Best Action: A3 State (3, 1, 4) V = 89.0 Best Action: A1 State (3, 2, 1) V = -100000 Best Action: No
State (2, 2, 4) V = -2.0 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No Action State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No	State (3, 5, 2) V = 97.5  State (3, 5, 3) V = 97.0  State (3, 5, 4) V = 98.0  State (4, 1, 1) V = -2.5  State (4, 1, 2) V = -2.5  State (4, 1, 3) V = -3.0  State (4, 2, 1) V = -2.5  State (4, 2, 1) V = -2.5  State (4, 2, 2) V = -2.5  State (4, 2, 2) V = -2.5  State (4, 2, 3) V = -3.0  State (4, 2, 4) V = -3.0  State (4, 2, 5) V = -3.0  State (4, 2, 5) V = -3.0  State (4, 2, 6) V = -3.0  State (4, 6, 6) V	State (1, 2, 3) V = -5.0 Best Action: A3 State (1, 3, 1) V = -4.5 Best Action: A3 State (1, 3, 1) V = -4.5 Best Action: A3 State (1, 3, 2) V = -4.5 Best Action: A3 State (1, 3, 4) V = -5.0 Best Action: A3 State (1, 4, 1) V = 93.0 Best Action: A4 State (1, 4, 2) V = 93.0 Best Action: A3 State (1, 4, 4) V = 93.5 Best Action: A3 State (1, 4, 4) V = 93.5 Best Action: A3 State (1, 4, 4) V = 93.5 Best Action: A3	Action  State (3, 3, 1) V = 95.5  State (3, 3, 2) V = 94.5  State (3, 3, 3) V = 95.0  State (3, 3, 4) V = 95.0  State (3, 4, 1) V = 96.0  State (3, 4, 1) V = 95.0  State (3, 4, 2) V = 95.0  State (3, 4, 3) V = 95.5  State (3, 4, 4) V = 95.5	State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 3) V = 100 State (5, 5, 4) V = 100 Iteration 8: State (1, 1, 1) V = 89.5 State (1, 1, 2) V = 88.5 Best Action: No Action B	State (2, 5, 3) V = 91.5 Best Action: A3 State (3, 1, 1) V = 88.5 Best Action: A4 State (3, 1, 2) V = 88.5 Best Action: A4 State (3, 1, 3) V = 88.0 Best Action: A3 State (3, 1, 4) V = 89.0 Best Action: A1 State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No
State (2, 1, 4) V = -2.0 Best Action: A3  State (2, 2, 1) V = -100000 Best Action: No Action  State (2, 2, 2) V = -100000 Best Action: No Action  State (2, 2, 3) V = -100000 Best Action: No Action  State (2, 2, 4) V = -100000 Best Action: No	State (3, 5, 2) V = 97.5  State (3, 5, 3) V = 97.0  State (3, 5, 4) V = 98.0  State (4, 1, 1) V = -2.5  State (4, 1, 2) V = -2.5  State (4, 1, 3) V = -3.0  State (4, 1, 4) V = -3.0  State (4, 2, 1) V = -2.5  State (4, 2, 1) V = -2.5  State (4, 2, 1) V = -3.0  State (4, 2, 3) V = -3.0  State (4, 2, 4) V = -3.0  State (4, 3, 1) V = -2.5  State (4, 3, 1) V = -2.5  State (4, 3, 3) V = -3.0  State (4, 3, 3) V = -3.0  State (4, 3, 3) V = -3.5  State (4, 3, 3) V = 3.5  State (4, 3, 3) V	State (1, 2, 3) V = -5.0  State (1, 3, 1) V = -5.0  State (1, 3, 1) V = -4.5  State (1, 3, 2) V = -4.5  State (1, 3, 4) V = -5.0  State (1, 3, 4) V = -5.0  State (1, 4, 2) V = 93.0  State (1, 4, 3) V = 93.0  State (1, 4, 3) V = 93.5  State (1, 4, 3) V = 93.5  State (1, 4, 5, 1) V = 93.5  State (1, 5, 1) V = -4.5  State (1, 5, 1) V = -4.5  State (1, 5, 2) V = 91.5	Action  State (3, 3, 1) V = 95.5  State (3, 3, 2) V = 94.5  State (3, 3, 3) V = 95.0  State (3, 3, 4) V = 95.0  State (3, 4, 1) V = 96.0  State (3, 4, 1) V = 96.0  State (3, 4, 2) V = 95.0  State (3, 4, 3) V = 95.5  State (3, 4, 3) V = 95.5  State (3, 4, 3) V = 95.5  State (3, 4, 1) V = 97.5  State (3, 5, 1) V = 97.5  State (3, 5, 2) V = 97.5	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action Iteration 8:  State (1, 1, 1) V = 89.5 Best Action: A1  State (1, 1, 2) V = 88.5 Best Action: A4  State (1, 1, 4) V = 89.0 Best Action: A3  State (1, 2, 1) V = 91.0 Best Action: A3	State (2, 5, 3) V = 91.5 Best Action: A3 State (3, 4, 4) V = 91.5 Best Action: A4 State (3, 1, 1) V = 88.5 Best Action: A4 State (3, 1, 3) V = 88.5 Best Action: A3 State (3, 1, 3) V = 89.0 Best Action: A3 State (3, 1, 4) V = 89.0 Best Action: A1 State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No
State (2, 2, 1) V = -2.0 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No Action State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No	State (3, 5, 2) V = 97.5  State (3, 5, 4) V = 97.0  State (3, 5, 4) V = 98.0  State (4, 1, 1) V = -2.5  State (4, 1, 2) V = -2.5  State (4, 1, 3) V = -3.0  State (4, 1, 4) V = -3.0  State (4, 2, 2) V = -2.5  State (4, 2, 2) V = -2.5  State (4, 2, 3) V = -3.0  State (4, 3, 1) V = -2.5  State (4, 3, 1) V = -2.5  State (4, 3, 1) V = -2.5  State (4, 3, 3) V = 93.5  State (4, 3, 4) V = -3.0  State (4, 4, 3, 4) V = -3.0  State (4, 4, 1) V = -1000  Best Action: A3  State (4, 7, 1) V = -1000  Best Action: A3  State (4, 7, 1) V = -1000  Best Action: A3  State (4, 7, 1) V = -1000  Best Action: A3  State (4, 7, 1) V = -1000  Best Action: A3  State (4, 7, 1) V = -1000  Best Action: A3  State (4, 7, 1) V = -1000  Best Action: A3  State (4, 7, 1) V = -1000  Best Action: A3  State (4, 7, 1) V = -1000  Best Action: A3  State (4, 7, 1) V = -1000  Best Action: A3  State (4, 7, 1) V = -1000  Best Action: A3  State (4, 7, 1) V = -1000  Best Action: A3  State (4, 7, 1) V = -1000  Best Action: A3  Best	State (1, 2, 3) V = -5.0 Best Action: A3 State (1, 3, 1) V = -4.5 Best Action: A3 State (1, 3, 1) V = -4.5 Best Action: A3 State (1, 3, 3) V = -5.0 Best Action: A3 State (1, 3, 4) V = -5.0 Best Action: A3 State (1, 4, 1) V = 93.0 Best Action: A3 State (1, 4, 2) V = 93.0 Best Action: A3 State (1, 4, 3) V = 93.0 Best Action: A3 State (1, 4, 3) V = 93.5 Best Action: A3 State (1, 5, 1) V = -4.5 Best Action: A2 State (1, 5, 1) V = -4.5 Best Action: A3 State (1, 5, 3) V = 91.0 Best Action: A3 State (1, 5, 4) V = 91.0 Best Action: A3 State (1, 5, 4) V = 91.0 Best Action: A3 State (1, 5, 4) V = 91.0 Best Action: A3 State (1, 5, 4) V = 91.0 Best Action: A3	Action  State (3, 3, 1) V = 95.5  State (3, 3, 2) V = 94.5  State (3, 3, 3) V = 95.0  State (3, 3, 4) V = 95.0  State (3, 4, 1) V = 96.0  State (3, 4, 1) V = 96.0  State (3, 4, 3) V = 95.0  State (3, 4, 3) V = 95.5  State (3, 4, 3) V = 95.5  State (3, 4, 3) V = 95.5  State (3, 5, 1) V = 97.5  State (3, 5, 3) V = 97.0  State (3, 5, 3) V = 97.0  State (3, 5, 3) V = 97.0  State (3, 5, 4) V = 98.0	State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 100 State (5, 5, 4) V = 100 Iteration 8: State (1, 1, 1) V = 89.5 State (1, 1, 3) V = 89.0 State (1, 1, 4) V = 89.0 State (1, 2, 1) V = 90.0 State (1, 2, 2) V = 90.0 Sest Action: A3 State (1, 2, 3) V = 90.0 Sest Action: A3 State (1, 2, 3) V = 90.0 Sest Action: A3 State (1, 2, 3) V = 90.0 Sest Action: A3 State (1, 2, 3) V = 90.0 Sest Action: A3 State (1, 2, 3) V = 90.5 Sest Action: A3 State (1, 2, 3) V = 90.5 Sest Action: A3 State (1, 2, 3) V = 90.5 Sest Action: A4 State (1, 2, 3) V = 90.5 Sest Action: A3 State (1, 2, 3) V = 90.5 Sest Action: A4 State (1, 2, 3) V = 90.5 Sest Action: A4	State (2, 5, 4) V = 91.5 Best Action: A3 State (2, 5, 4) V = 91.5 Best Action: A4 State (3, 1, 1) V = 88.5 Best Action: A4 State (3, 1, 2) V = 88.5 Best Action: A3 State (3, 1, 4) V = 88.0 Best Action: A3 State (3, 1, 4) V = 89.0 Best Action: A1 State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action
State (2, 2, 4) V = -2.0 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No Action State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action	State (3, 5, 2) V = 97.5  State (3, 5, 3) V = 97.0  State (3, 5, 4) V = 98.0  State (4, 1, 1) V = -2.5  State (4, 1, 2) V = -2.5  State (4, 1, 2) V = -3.0  State (4, 2, 1) V = -3.0  State (4, 2, 2) V = -2.5  State (4, 2, 2) V = -2.5  State (4, 2, 2) V = -2.5  State (4, 2, 3) V = -3.0  State (4, 2, 3) V = -3.0  State (4, 2, 3) V = -3.0  State (4, 3, 1) V = -2.5  State (4, 3, 1) V = -2.5  State (4, 3, 3) V = -3.0  State (4, 4, 1) V = -3.0  State (4, 4, 2) V = -3.0	State (1, 2, 3) V = -5.0  State (1, 3, 1) V = -4.5  State (1, 3, 1) V = -4.5  State (1, 3, 1) V = -4.5  State (1, 3, 4) V = -5.0  State (1, 3, 4) V = -5.0  State (1, 4, 1) V = 93.0  State (1, 4, 1) V = 93.0  State (1, 4, 1) V = 93.5  State (1, 5, 1) V = -4.5  State (1, 5, 1) V = -4.5  State (1, 5, 1) V = -1.5  State (1, 5, 1) V = 1.0  State (1, 5, 1) V = 1.0  State (1, 5, 1) V = 1.0  State (2, 1, 1) V = -4.5  State (2, 1, 1) V = -4.5  State (2, 1, 2) V = -4.5	Action  State (3, 3, 1) V = 95.5  State (3, 3, 3) V = 94.5  State (3, 3, 3) V = 95.0  State (3, 3, 4) V = 95.0  State (3, 4, 1) V = 96.0  State (3, 4, 1) V = 95.0  State (3, 4, 2) V = 95.0  State (3, 4, 3) V = 95.5  State (3, 4, 4) V = 95.5  State (3, 5, 1) V = 97.5  State (3, 5, 3) V = 97.5  State (3, 5, 3) V = 97.0  State (4, 1, 1) V = 91.0  State (4, 1, 1) V = 90.0  State (4, 1, 2) V = 90.0	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	State (2, 5, 3) V = 91.5 Best Action: A3 State (3, 1, 1) V = 88.5 Best Action: A4 State (3, 1, 2) V = 88.5 Best Action: A4 State (3, 1, 2) V = 88.0 Best Action: A3 State (3, 1, 4) V = 89.0 Best Action: A3 State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action
State (2, 2, 4) V = -2.0 Best Action: A3  State (2, 2, 1) V = -100000 Best Action: No Action  State (2, 2, 2) V = -100000 Best Action: No Action  State (2, 2, 3) V = -100000 Best Action: No Action  State (2, 2, 4) V = -100000 Best Action: No Action  State (2, 3, 1) V = -100000 Best Action: No Action  State (2, 3, 2) V = -100000 Best Action: No Action  State (2, 3, 3) V = -100000 Best Action: No Action  State (2, 3, 3) V = -100000 Best Action: No Action  State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No	State (3, 5, 2) v = 97.5  State (3, 5, 3) v = 97.0  State (3, 5, 4) v = 98.0  State (4, 1, 1) v = -2.5  State (4, 1, 2) v = -2.5  State (4, 1, 3) v = -3.0  State (4, 1, 3) v = -3.0  State (4, 2, 1) v = -2.5  State (4, 2, 3) v = -3.0  State (4, 3, 3) v = -3.0  State (4, 4, 1) v = -1000  Action  State (4, 4, 2) v = -1000  State (4, 4, 3) v = -1000	State (1, 2, 3) V = -5.0  State (1, 3, 1) V = -4.5  State (1, 3, 1) V = -4.5  State (1, 3, 4) V = -5.0  State (1, 3, 4) V = -5.0  State (1, 4, 3) V = -5.0  State (1, 4, 2) V = 93.0  State (1, 4, 3) V = 93.0  State (1, 4, 3) V = 93.5  State (1, 4, 3) V = 93.5  State (1, 5, 3) V = 91.5  State (1, 5, 3) V = 91.0  State (1, 5, 3) V = 91.0  State (1, 5, 4) V = 91.0  State (1, 5, 4) V = 91.0  State (2, 1, 1) V = -4.5  State (2, 1, 1) V = -4.5  State (2, 1, 3) V = 5.0  Best Action: A3  State (2, 1, 3) V = 5.0  Best Action: A3  State (2, 1, 3) V = 5.0  Best Action: A3  State (2, 1, 4) V = -5.0  Best Action: A3  State (2, 1, 4) V = -5.0  Best Action: A3  State (2, 1, 4) V = -5.0  Best Action: A3  State (2, 1, 4) V = -5.0  Best Action: A3  State (2, 1, 4) V = -5.0  Best Action: A3  State (2, 1, 4) V = -5.0  Best Action: A3  State (2, 1, 4) V = -5.0  Best Action: A3  State (2, 1, 4) V = -5.0  Best Action: A3	Action  State (3, 3, 1) V = 95.5  State (3, 3, 3) V = 94.5  State (3, 3, 3) V = 95.0  State (3, 3, 3) V = 95.0  State (3, 4, 1) V = 96.0  State (3, 4, 1) V = 96.0  State (3, 4, 2) V = 95.0  State (3, 4, 4) V = 95.5  State (3, 4, 4) V = 95.5  State (3, 5, 1) V = 97.5  State (3, 5, 2) V = 97.5  State (4, 1, 2) V = 90.0  State (4, 1, 1) V = 91.0  State (4, 1, 3) V = 90.0  State (4, 1, 3) V = 90.0  State (4, 1, 4) V = 90.5	State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 100 State (5, 5, 4) V = 100 Best Action: No Action State (1, 1, 1) V = 89.5 State (1, 1, 1) V = 89.5 State (1, 1, 2) V = 88.5 State (1, 1, 4) V = 89.0 State (1, 1, 4) V = 89.0 State (1, 2, 1) V = 91.0 State (1, 2, 2) V = 90.0 State (1, 2, 3) V = 90.5 State (1, 3, 1) V = 91.5 State (1, 3, 2) V = 90.5 Stat	State (2, 5, 3) V = 91.5 Best Action: A3 State (3, 1, 1) V = 88.5 Best Action: A4 State (3, 1, 2) V = 88.5 Best Action: A4 State (3, 1, 3) V = 88.0 Best Action: A3 State (3, 1, 4) V = 89.0 Best Action: A1 State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = 95.5 Best Action: A2 State (3, 3, 3) V = 95.5 Best Action: A4
State (2, 2, 4) V = -2.0 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No Action State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 4) V = -100000 Best Action: No Action	State (3, 5, 2) V = 97.5  State (3, 5, 3) V = 97.0  State (3, 5, 4) V = 98.0  State (4, 1, 2) V = -2.5  State (4, 1, 2) V = -2.5  State (4, 1, 2) V = -3.0  State (4, 1, 2) V = -3.0  State (4, 2, 1) V = -3.0  State (4, 2, 4) V = -3.0  State (4, 3, 1) V = -3.0  State (4, 4, 1) V = -1000  Action  State (4, 4, 1) V = -1000  Best Action: No  Action  State (4, 4, 4) V = -1000  Best Action: No  State (4, 4, 4) V = -1000  Best Action: No	State (1, 2, 3) V = -5.0  State (1, 3, 1) V = -4.5  State (1, 3, 1) V = -4.5  State (1, 3, 3) V = -5.0  State (1, 3, 4) V = -5.0  State (1, 4, 2) V = 93.0  State (1, 4, 2) V = 93.0  State (1, 4, 3) V = 93.5  State (1, 5, 1) V = -10.5  State (1, 5, 1) V = -10.5  State (1, 5, 4) V = 91.5  State (1, 5, 4) V = 91.5  State (1, 5, 4) V = 91.0  State (2, 1, 1) V = -4.5  State (2, 1, 1) V = -5.0  State (2, 1, 3) V = 5.0  State (2, 1, 3) V = 5.0  State (2, 1, 3) V = 5.0  State (2, 1, 3) V = -5.0  State (2, 1, 4) V = -5.0  State (2, 1, 4) V = -5.0  State (2, 1, 4) V = -5.0  State (2, 2, 1) V = -100000  Best Action: A3  State (2, 2, 1) V = -100000  Best Action: A3  State (2, 2, 1) V = -100000  Best Action: A3  State (2, 2, 1) V = -1000000  Best Action: A3	Action  State (3, 3, 1) V = 95.5  State (3, 3, 3) V = 94.5  State (3, 3, 3) V = 95.0  Best Action: A3  State (3, 4, 1) V = 95.0  State (3, 4, 1) V = 96.0  State (3, 4, 3) V = 95.0  State (3, 4, 3) V = 95.0  State (3, 4, 3) V = 95.5  State (3, 4, 4) V = 95.5  State (3, 4, 4) V = 95.5  State (3, 5, 1) V = 97.5  State (3, 5, 1) V = 97.5  State (3, 5, 3) V = 97.6  State (4, 1, 1) V = 91.0  State (4, 1, 2) V = 90.0  State (4, 1, 3) V = 90.5  State (4, 1, 4) V = 90.5  State (4, 2, 1) V = 91.5  State (4, 2, 1) V = 90.5	State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 100 State (5, 5, 4) V = 100 State (5, 5, 4) V = 100 State (1, 1, 1) V = 89.5 State (1, 1, 1) V = 89.5 State (1, 1, 4) V = 89.0 State (1, 1, 4) V = 89.0 State (1, 2, 2) V = 90.0 State (1, 2, 3) V = 90.0 State (1, 2, 3) V = 90.5 State (1, 3, 3) V = 90.5 State (1, 3, 3) V = 91.0 State (1, 3, 3) V = 90.0 State (1, 3, 4) V = 90.5 State (1, 3, 4) V = 90.5 State (1, 3, 4) V = 90.0 State (1, 4, 1) V = 93.0	State (2, 5, 4) V = 91.5 Best Action: A3 State (2, 5, 4) V = 91.5 Best Action: A4 State (3, 1, 1) V = 88.5 Best Action: A4 State (3, 1, 2) V = 88.5 Best Action: A3 State (3, 1, 4) V = 88.0 Best Action: A3 State (3, 1, 4) V = 89.0 Best Action: A1 State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 3, 3) V = 95.5 Best Action: A2 State (3, 3, 3) V = 95.0 Best Action: A3 State (3, 3, 3) V = 95.0 Best Action: A3 State (3, 3, 4) V = 95.0 Best Action: A3 State (3, 3, 4) V = 95.0 Best Action: A3 State (3, 4, 1) V = 96.0 Best Action: A3
State (2, 2, 4) V = -2.0 Best Action: A3 State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 4) V = -100000 Best Action: No Action State (2, 3, 4) V = -100000 Best Action: No Action State (2, 4, 1) V = -1.5 Best Action: A3	State (3, 5, 2) V = 97.5  State (3, 5, 3) V = 97.0  State (3, 5, 4) V = 98.0  State (4, 1, 1) V = -2.5  State (4, 1, 2) V = -2.5  State (4, 1, 3) V = -3.0  State (4, 1, 3) V = -3.0  State (4, 2, 1) V = -2.5  State (4, 2, 2) V = -2.5  State (4, 2, 2) V = -2.5  State (4, 2, 2) V = -2.5  State (4, 3, 1) V = -3.0  State (4, 3, 1) V = -3.0  State (4, 3, 1) V = -3.0  State (4, 3, 4) V = -3.0  State (4, 4, 3) V = -3.0  State (4, 4, 3) V = -3.0  State (4, 4, 1) V = -3.0  State (4, 4, 1) V = -3.0  State (4, 4, 2) V = -1000  Action  State (4, 4, 3) V = -1000  Action  State (4, 4, 4) V = -1000  State (4, 4, 4) V = -1000  Action  State (4, 5, 1) V = 98.0  Best Action: No	State (1, 2, 3) V = -5.0  State (1, 3, 1) V = -4.5  State (1, 3, 1) V = -4.5  State (1, 3, 3) V = -5.0  State (1, 3, 3) V = -5.0  State (1, 3, 4) V = -5.0  State (1, 4, 2) V = 93.0  State (1, 4, 2) V = 93.0  State (1, 4, 3) V = 93.0  State (1, 4, 3) V = 93.0  State (1, 4, 3) V = 93.0  State (1, 5, 1) V = -4.5  State (1, 5, 1) V = -4.5  State (1, 5, 1) V = 93.0  State (1, 5, 1) V = -4.5  State (1, 5, 1) V = -4.5  State (1, 5, 1) V = -5.0  State (1, 5, 1) V = -5.0  State (1, 5, 1) V = -5.0  State (2, 1, 1) V = -5.0  State (2, 1, 2) V = -5.0  State (2, 2, 2) V = -100000  Best Action: No Action	Action  State (3, 3, 1) $V = 95.5$ State (3, 3, 2) $V = 94.5$ State (3, 3, 3) $V = 95.0$ Best Action: A3  State (3, 3, 4) $V = 95.0$ Best Action: A3  State (3, 4, 1) $V = 96.0$ Best Action: A1  State (3, 4, 2) $V = 95.0$ Best Action: A1  State (3, 4, 3) $V = 95.0$ Best Action: A3  State (3, 5, 3) $V = 95.0$ Best Action: A4  State (3, 5, 2) $V = 97.5$ Best Action: A3  State (3, 5, 2) $V = 97.5$ Best Action: A3  State (3, 5, 3) $V = 97.0$ Best Action: A3  State (3, 5, 4) $V = 98.0$ Best Action: A2  State (4, 1, 2) $V = 90.0$ Best Action: A3  State (4, 1, 3) $V = 90.0$ Best Action: A3  State (4, 1, 4) $V = 90.0$ Best Action: A3  State (4, 1, 4) $V = 90.0$ Best Action: A3  State (4, 2, 1) $V = 91.0$ Best Action: A3  State (4, 2, 4) $V = 90.0$ Best Action: A3  State (4, 2, 4) $V = 90.0$ Best Action: A3  State (4, 2, 4) $V = 90.0$ Best Action: A3  State (4, 2, 4) $V = 90.0$ Best Action: A4  State (4, 2, 4) $V = 90.0$ Best Action: A3	State $(5,5,1) \lor = 100$ Best Action: No Action State $(5,5,2) \lor = 100$ Best Action: No Action State $(5,5,4) \lor = 100$ Best Action: No Action State $(5,5,4) \lor = 100$ Best Action: No Action Iteration 8: State $(1,1,2) \lor = 89.5$ Best Action: A1 State $(1,1,3) \lor = 89.0$ Best Action: A3 State $(1,1,4) \lor = 89.0$ Best Action: A3 State $(1,2,1) \lor = 91.0$ Best Action: A3 State $(1,2,2) \lor = 90.0$ Best Action: A4 State $(1,2,3) \lor = 90.5$ Best Action: A3 State $(1,3,3) \lor = 91.0$ Best Action: A3 State $(1,3,3) \lor = 91.0$ Best Action: A3 State $(1,3,4) \lor = 91.0$ Best Action: A3 State $(1,3,4) \lor = 91.0$ Best Action: A4 State $(1,4,1) \lor = 93.0$ Best Action: A4 State $(1,4,4) \lor = 93.0$ Best Action: A4 State $(1,4,4) \lor = 93.0$ Best Action: A4 State $(1,4,4) \lor = 93.0$ Best Action: A3 State $(1,4,2) \lor = 93.0$ Best Action: A3 Best Action: A3 State $(1,4,2) \lor = 93.0$ Best Action: A3 Best Action: A3 State $(1,4,2) \lor = 93.0$ Best Action: A3 Best Action: A3 State $(1,4,2) \lor = 93.0$ Best Action: A3 Be	State (2, 5, 4) V = 91.5 Best Action: A3 State (2, 5, 4) V = 91.5 Best Action: A4 State (3, 1, 1) V = 88.5 Best Action: A4 State (3, 1, 2) V = 88.5 Best Action: A3 State (3, 1, 4) V = 89.0 Best Action: A3 State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = 95.0 Best Action: A2 State (3, 3, 1) V = 95.0 Best Action: A4 State (3, 4, 1) V = 96.0 Best Action: A3 State (3, 4, 2) V = 95.0 Best Action: A3 State (3, 4, 2) V = 95.0 Best Action: A3 State (3, 4, 2) V = 95.0 Best Action: A3 State (3, 4, 2) V = 95.0 Best Action: A3 State (3, 4, 2) V = 95.0 Best Action: A3 State (3, 4, 2) V = 95.0 Best Action: A3 State (3, 4, 2) V = 95.0 Best Action: A3 State (3, 4, 2) V = 95.0 Best Action: A3 State (3, 4, 2) V = 95.0 Best Action: A3
State (2, 2, 4) V = -2.0 Best Action: A3  State (2, 2, 1) V = -100000 Best Action: No Action  State (2, 2, 2) V = -100000 Best Action: No Action  State (2, 2, 3) V = -100000 Best Action: No Action  State (2, 2, 3) V = -100000 Best Action: No Action  State (2, 3, 1) V = -100000 Best Action: No Action  State (2, 3, 1) V = -100000 Best Action: No Action  State (2, 3, 2) V = -100000 Best Action: No Action  State (2, 3, 3) V = -100000 Best Action: No Action  State (2, 3, 4) V = -100000 Best Action: No Action  State (2, 4, 1) V = -1.5 Best Action: A3  State (2, 4, 2) V = -1.5 Best Action: A3  State (2, 4, 3) V = -2.0 Best Action: A3	State (3, 5, 2) V = 97.5  State (3, 5, 3) V = 97.0  State (3, 5, 4) V = 98.0  State (4, 1, 1) V = -2.5  State (4, 1, 2) V = -2.5  State (4, 2, 1) V = -3.0  State (4, 2, 1) V = -3.0  State (4, 2, 2) V = -2.5  State (4, 2, 2) V = -2.5  State (4, 2, 2) V = -2.5  State (4, 2, 3) V = -3.0  State (4, 2, 3) V = -3.0  State (4, 2, 4) V = -3.0  State (4, 2, 3) V = -3.5  State (4, 3, 3) V = 3.0  State (4, 4, 1) V = -1.00  Action  State (4, 4, 3) V = -1000  Action  State (4, 4, 4) V = -1000  Action  State (4, 4, 4) V = -1000  Action  State (4, 5, 1) V = 98.0  State (4, 5, 1) V = 98.0  State (4, 5, 1) V = 98.0  State (4, 5, 3) V = 98.0  State (4, 5, 3) V = 97.5  Best Action: A3  State (4, 5, 1) V = 98.0  Best Action: No  Action  State (4, 5, 1) V = 98.0  Best Action: A3  State (4, 5, 1) V = 98.0  Best Action: A3  State (4, 5, 1) V = 98.0  Best Action: A3  Best Action: No  Action  State (4, 5, 1) V = 98.0  Best Action: A3  Best Action: No  Best Actio	State (1, 2, 3) V = -5.0  State (1, 3, 1) V = -4.5  State (1, 3, 1) V = -4.5  State (1, 3, 4) V = -5.0  State (1, 3, 4) V = -5.0  State (1, 4, 3) V = -5.0  State (1, 4, 1) V = 93.0  State (1, 4, 3) V = 93.0  State (1, 4, 3) V = 93.5  State (1, 4, 3) V = 93.5  State (1, 5, 1) V = -4.5  State (1, 5, 1) V = -4.5  State (1, 5, 2) V = 91.5  State (1, 5, 2) V = 91.5  State (1, 5, 4) V = 91.0  State (1, 5, 4) V = 91.0  State (2, 1, 1) V = -4.5  State (2, 1, 1) V = -4.5  State (2, 1, 2) V = -4.5  State (2, 1, 2) V = -5.0  State (2, 2, 2) V = -100000  State (2, 2, 3) V = -100000  State (3, 3) V = -1000000  State (3, 3) V = -1000000  State (3, 3) V = -1000000	Action  State (3, 3, 1) V = 95.5  State (3, 3, 3) V = 95.0  State (3, 3, 3) V = 95.0  State (3, 3, 4) V = 95.0  State (3, 4, 1) V = 96.0  State (3, 4, 1) V = 95.0  State (3, 4, 2) V = 95.0  State (3, 4, 4) V = 95.5  State (3, 4, 4) V = 95.5  State (3, 5, 1) V = 97.5  State (3, 5, 1) V = 97.5  State (3, 5, 2) V = 97.5  State (3, 5, 2) V = 97.5  State (3, 5, 4) V = 98.0  State (3, 5, 4) V = 98.0  State (4, 1, 1) V = 91.0  State (4, 1, 1) V = 91.0  State (4, 1, 1) V = 91.0  State (4, 1, 2) V = 90.0  State (4, 1, 4) V = 90.5  State (4, 2, 2) V = 90.0  State (4, 2, 3) V = 91.0  State (4, 3, 1) V = 93.0  State (4, 3, 2) V = 93.0	State $(5,5,1) \lor = 100$ Best Action: No Action State $(5,5,2) \lor = 100$ Best Action: No Action State $(5,5,4) \lor = 100$ Best Action: No Action State $(5,5,4) \lor = 100$ Best Action: No Action Iteration 8:  State $(1,1,1) \lor = 89.5$ Best Action: A1  State $(1,1,3) \lor = 89.0$ Best Action: A3  State $(1,1,3) \lor = 99.0$ Best Action: A3  State $(1,2,2) \lor = 90.0$ Best Action: A2  State $(1,2,2) \lor = 90.0$ Best Action: A3  State $(1,2,3) \lor = 90.5$ Best Action: A3  State $(1,2,3) \lor = 90.5$ Best Action: A3  State $(1,3,3) \lor = 90.5$ Best Action: A3  State $(1,3,3) \lor = 90.5$ Best Action: A3  State $(1,3,3) \lor = 90.5$ Best Action: A3  State $(1,4,3) \lor = 90.5$ Best Action: A3  State $(1,5,5) \lor = 90.5$ Best Action: A3  State $(1,5,5) \lor = 90.5$ Best Action: A3	State (2, 5, 3) V = 91.5 Best Action: A3 State (3, 1, 1) V = 88.5 Best Action: A4 State (3, 1, 2) V = 88.5 Best Action: A4 State (3, 1, 3) V = 88.0 Best Action: A3 State (3, 1, 4) V = 89.0 Best Action: A3 State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 3) V = 95.5 Best Action: A2 State (3, 3, 3) V = 95.0 Best Action: A4 State (3, 4, 2) V = 95.0 Best Action: A3 State (3, 4, 3) V = 95.5 Best Action: A3 State (3, 4, 3) V = 95.5 Best Action: A3 State (3, 4, 4) V = 95.5 Best Action: A3 State (3, 4, 4) V = 95.5 Best Action: A3 State (3, 4, 4) V = 95.5 Best Action: A3 State (3, 4, 4) V = 95.5 Best Action: A3 State (3, 4, 4) V = 95.5 Best Action: A3 State (3, 4, 4) V = 95.5 Best Action: A3 State (3, 5, 1) V = 97.5 Best Action: A4
State (2, 2, 1) V = -2.0 Best Action: A3  State (2, 2, 1) V = -100000 Best Action: No Action  State (2, 2, 2) V = -100000 Best Action: No Action  State (2, 2, 3) V = -100000 Best Action: No Action  State (2, 2, 4) V = -100000 Best Action: No Action  State (2, 3, 1) V = -100000 Best Action: No Action  State (2, 3, 2) V = -100000 Best Action: No Action  State (2, 3, 2) V = -100000 Best Action: No Action  State (2, 3, 3) V = -100000 Best Action: No Action  State (2, 3, 3) V = -100000 Best Action: No Action  State (2, 4, 3) V = -1.5 Best Action: A3  State (2, 4, 3) V = -1.5 Best Action: A3  State (2, 4, 4) V = -2.0 Best Action: A3  State (2, 4, 4) V = -2.0 Best Action: A3  State (2, 5, 1) V = -1.5 Best Action: A3  State (2, 5, 1) V = -1.5 Best Action: A3  State (2, 5, 1) V = -1.5 Best Action: A3	State (3, 5, 2) v = 97.5  State (3, 5, 3) v = 97.0  State (4, 1, 1) v = -2.5  State (4, 1, 2) v = -2.5  State (4, 1, 3) v = -3.0  State (4, 1, 3) v = -3.0  State (4, 2, 1) v = -2.5  State (4, 2, 4) v = -3.0  State (4, 3, 3) v = -3.0  State (4, 4, 1) v = -1000  Action  State (4, 4, 4) v = -1000  Action  State (4, 4, 4) v = -1000  Action  State (4, 4, 4) v = -1000  Action  State (4, 5, 1) v = 98.0  State (4, 5, 3) v = 98.5  State (4, 5, 4) v = 98.0  State (5, 5, 4) v = 98.5  State (5, 1, 1) v = -2.5  State (5, 1, 1) v = -2.5  State (5, 1, 1) v = -2.5  Sest Action: A3  State (5, 1, 1) v = -2.5  Sest Action: No  Action  State (4, 5, 4) v = -8.0  Sest Action: No  Action  State (4, 5, 1) v = 98.0  Sest Action: A3  State (4, 5, 1) v = 98.0  Sest Action: A3  State (4, 5, 1) v = 98.0  Sest Action: A3  State (5, 1, 1) v = -2.5  Sest Action: A3  State (5, 1, 1) v = -2.5  Sest Action: A3  State (5, 1, 1) v = -2.5  Sest Action: A3  State (5, 1, 1) v = -2.5  Sest Action: A3  State (6, 5, 4) v = 98.0  Sest Action: A3  State (6, 5, 4) v = 98.0  Sest Action: A3  State (6, 5, 4) v = 98.0  Sest Action: A3  State (6, 5, 4) v = 98.0  Sest Action: A3  State (6, 5, 4) v = 98.0  Sest Action: A3  State (6, 5, 4) v = 98.0  Sest Action: A3  State (6, 5, 4) v = 98.0  Sest Action: A3  State (6, 5, 4) v = 98.0  Sest Action: A3  State (6, 5, 4) v = 98.0  Sest Action: A3  State (6, 5, 4) v = 98.0  Sest Action: A3  State (6, 5, 4) v = 98.0  Sest Action: A3  State (6, 5, 4) v = 98.0  Sest Action: A3  State (6, 5, 6) v = 98.0  Sest Action: A3  State (7, 6) v = 72.5  Sest Action: A3  State (7, 6) v = 72.5  Sest Action: A3  State (8, 7, 8) v = 72.5  Sest Action: A3  State (8, 7, 8) v = 72.5  Sest Action: A3  State (8, 7, 8) v = 72.5  Sest Action: A3  State (8, 8, 8)	State (1, 2, 3) V = -5.0  State (1, 3, 1) V = -4.5  State (1, 3, 1) V = -4.5  State (1, 3, 3) V = -5.0  State (1, 3, 4) V = -5.0  State (1, 3, 4) V = -5.0  State (1, 4, 2) V = 93.0  State (1, 4, 3) V = 93.0  State (1, 4, 3) V = 93.5  State (1, 4, 3) V = 93.5  State (1, 4, 3) V = 93.5  State (1, 5, 1) V = -4.5  State (1, 5, 1) V = -4.5  State (1, 5, 1) V = -4.5  State (1, 5, 2) V = 91.5  State (1, 5, 4) V = 91.0  State (2, 1, 1) V = -4.5  State (2, 1, 3) V = 5.0  State (2, 1, 3) V = 5.0  State (2, 1, 3) V = 5.0  State (3, 3) V = 91.0  State (4, 5, 4) V = 91.0  State (2, 1, 3) V = -5.0  State (2, 1, 3) V = -5.0  State (2, 1, 3) V = -5.0  State (2, 2, 3) V = -100000  State (2, 2, 3) V = -100000  State (2, 2, 4) V = -100000  Best Action: No Action  State (2, 2, 4) V = -100000  Best Action: No Action  State (2, 2, 4) V = -100000  Best Action: No Action	Action  State (3, 3, 1) V = 95.5  State (3, 3, 3) V = 94.5  State (3, 3, 3) V = 95.0  Best Action: A3  State (3, 3, 4) V = 95.0  State (3, 4, 1) V = 96.0  Best Action: A3  State (3, 4, 1) V = 96.0  Best Action: A1  State (3, 4, 2) V = 95.5  Best Action: A3  State (3, 4, 4) V = 95.5  Best Action: A4  State (3, 5, 2) V = 97.5  Best Action: A3  State (3, 5, 3) V = 97.5  Best Action: A3  State (3, 5, 3) V = 97.5  Best Action: A3  State (3, 5, 3) V = 97.0  Best Action: A3  State (4, 1, 1) V = 91.0  Best Action: A2  State (4, 1, 4) V = 90.0  Best Action: A2  State (4, 1, 4) V = 90.5  Best Action: A3  State (4, 1, 4) V = 90.5  Best Action: A3  State (4, 2, 2) V = 90.5  Best Action: A3  State (4, 2, 3) V = 90.5  Best Action: A3  State (4, 2, 3) V = 90.5  Best Action: A3  State (4, 2, 3) V = 90.5  Best Action: A3  State (4, 2, 3) V = 90.5  Best Action: A3  State (4, 2, 3) V = 90.5  Best Action: A3  State (4, 3, 1) V = 93.0  Best Action: A4  State (4, 3, 1) V = 93.0  Best Action: A4  State (4, 3, 1) V = 93.0  Best Action: A4  State (4, 3, 4) V = 93.0  Best Action: A4  State (4, 3, 4) V = 93.0  Best Action: A4  State (4, 3, 4) V = 93.0  Best Action: A4  State (4, 3, 4) V = 93.0  Best Action: A4  State (4, 3, 4) V = 93.0  Best Action: A4  State (4, 3, 4) V = 93.0  Best Action: A4  State (4, 3, 4) V = 93.0  Best Action: A4  State (4, 3, 4) V = 93.0  Best Action: A4  State (4, 3, 4) V = 93.0  Best Action: A4  State (4, 3, 4) V = 93.0  Best Action: A4  State (4, 3, 4) V = 93.0  Best Action: A4  State (4, 3, 4) V = 93.0  Best Action: A4  State (4, 3, 4) V = 93.0	State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 100 State (1, 1, 1) V = 89.5 State (1, 1, 1) V = 89.5 State (1, 1, 4) V = 89.0 State (1, 1, 4) V = 89.0 State (1, 2, 2) V = 90.0 State (1, 2, 2) V = 90.0 State (1, 2, 3) V = 90.5 State (1, 2, 3) V = 90.5 State (1, 2, 3) V = 90.5 State (1, 3, 3) V = 90.5 State (1, 3, 4) V = 90.5 State (1, 3, 4) V = 90.5 State (1, 3, 4) V = 90.5 State (1, 4, 1) V = 90.0 State (1, 4, 1) V = 90.0 State (1, 4, 4) V = 93.0 State (1, 4, 4) V = 93.0 State (1, 4, 4) V = 93.5 State (1, 4, 4) V = 93.5 State (1, 5, 1) V = 93.5 State (1, 5, 1) V = 93.5 State (1, 5, 1) V = 93.5 State (1, 5, 2) V = 93.5 State (1, 5, 2) V = 93.0 State (1, 5, 2) V = 93.0 State (1, 5, 2) V = 93.0 State (1, 5, 2) V = 93.5 State (1, 5, 2) V = 93.5 State (1, 5, 2) V = 93.6 State (1, 5, 2) V = 93.6 State (10, 5, 3) V = 90.0 State (10	State (2, 5, 3) V = 91.5 Best Action: A3  State (3, 1, 1) V = 88.5 Best Action: A4  State (3, 1, 2) V = 88.5 Best Action: A4  State (3, 1, 3) V = 88.0 Best Action: A3  State (3, 1, 3) V = 88.0 Best Action: A3  State (3, 1, 4) V = 89.0 Best Action: A1  State (3, 2, 1) V = -100000 Best Action: No  Action  State (3, 2, 2) V = -100000 Best Action: No  Action  State (3, 2, 3) V = -100000 Best Action: No  Action  State (3, 2, 3) V = -100000 Best Action: No  Action  State (3, 3, 1) V = 95.0 Best Action: A2  State (3, 3, 3) V = 95.0 Best Action: A4  State (3, 4, 1) V = 96.0 Best Action: A3  State (3, 4, 3) V = 95.0 Best Action: A3  State (3, 4, 3) V = 95.0 Best Action: A3  State (3, 4, 3) V = 95.0 Best Action: A3  State (3, 4, 3) V = 95.0 Best Action: A3  State (3, 4, 3) V = 95.0 Best Action: A3  State (3, 4, 3) V = 95.0 Best Action: A3  State (3, 4, 3) V = 95.0 Best Action: A3  State (3, 4, 3) V = 95.0 Best Action: A3  State (3, 5, 3) V = 95.5 Best Action: A3  State (3, 5, 3) V = 97.5 Best Action: A3  State (3, 5, 3) V = 97.5 Best Action: A3  State (3, 5, 3) V = 97.5 Best Action: A3
State (2, 2, 4) V = -2.0 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No Action State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 4) V = -100000 Best Action: No Action State (2, 4, 2) V = -1.5 Best Action: A3 State (2, 4, 3) V = -1.5 Best Action: A3 State (2, 4, 4) V = -2.0 Best Action: A3 State (2, 4, 4) V = -2.0 Best Action: A3 State (2, 4, 4) V = -2.0 Best Action: A3	State (3, 5, 2) v = 97.5  State (3, 5, 3) v = 97.0  Best Action: A3  State (4, 1, 1) v = -2.5  State (4, 1, 2) v = -2.5  State (4, 1, 2) v = -2.5  State (4, 2, 1) v = -2.5  State (4, 2, 3) v = -3.0  State (4, 2, 4) v = -3.0  State (4, 3, 3) v = -3.0  State (4, 3, 3) v = -3.0  State (4, 3, 1) v = -2.5  State (4, 3, 1) v = -2.5  State (4, 3, 1) v = -2.5  State (4, 3, 1) v = -3.0  State (4, 4, 1) v = -3.0  State (4, 5, 1) v = 98.0  State (4, 5, 1) v = 98.0  State (4, 5, 4) v = 98.5  State (5, 1, 1) v = -2.5  State (5, 1, 1) v = -2.5  State (5, 1, 2) v = -3.0  Best Action: A3  State (5, 1, 2) v = -3.0  Best Action: A3  State (5, 1, 2) v = -3.0  Best Action: A3  State (5, 1, 3) v = -3.0  Best Action: A3  State (5, 1, 3) v = -3.0  Best Action: A3  State (5, 1, 3) v = -3.0  Best Action: A3  State (5, 1, 3) v = -3.0  Best Action: A3  State (5, 1, 3) v = -3.0  Best Action: A3  State (5, 1, 3) v = -3.0  Best Action: A3  State (5, 1, 3) v = -3.0  Best Action: A3  State (5, 1, 3) v = -3.0  Best Action: A3  State (5, 1, 3) v = -3.0  Best Action: A3  State (5, 1, 3) v = -3.0  Best Action: A3  State (5, 1, 3) v = -3.0  Best Action: A3  State (5, 1, 3) v = -3.0  Best Action: A3  Best	State (1, 2, 3) V = -5.0  State (1, 3, 1) V = -4.5  State (1, 3, 1) V = -4.5  State (1, 3, 3) V = -5.0  State (1, 3, 4) V = -5.0  State (1, 3, 4) V = -5.0  State (1, 4, 1) V = 93.0  State (1, 4, 1) V = 93.0  State (1, 4, 2) V = 93.5  State (1, 4, 3) V = 92.5  State (1, 4, 1) V = 93.5  State (1, 4, 1) V = 93.5  State (1, 5, 1) V = -1.5  State (1, 5, 1) V = -1.5  State (1, 5, 1) V = -1.5  State (2, 1, 1) V = -4.5  State (2, 1, 1) V = -4.5  State (2, 1, 2) V = 91.0  State (2, 1, 2) V = -5.0  State (2, 2, 1) V = -100000  State (2, 2, 3) V = -100000  State (2, 2, 4) V = -100000  State (2, 2, 3) V = -100000  State (2, 2, 3) V = -100000  State (2, 3, 1) V = -1000000  State (3, 3, 1) V = -1000000	Action  State (3, 3, 1) V = 95.5  State (3, 3, 3) V = 94.5  State (3, 3, 3) V = 95.0  Best Action: A3  State (3, 4, 3) V = 95.0  Best Action: A3  State (3, 4, 1) V = 96.0  Best Action: A1  State (3, 4, 2) V = 95.0  Best Action: A1  State (3, 4, 3) V = 95.5  State (3, 5, 3) V = 97.5  State (3, 5, 1) V = 97.5  Best Action: A3  State (3, 5, 3) V = 97.5  Best Action: A3  State (3, 5, 3) V = 97.5  Best Action: A3  State (3, 5, 3) V = 97.0  Best Action: A3  State (3, 5, 4) V = 98.0  Best Action: A2  State (4, 1, 2) V = 90.0  Best Action: A2  State (4, 1, 2) V = 90.0  Best Action: A3  State (4, 1, 3) V = 90.5  Best Action: A3  State (4, 2, 1) V = 91.0  Best Action: A3  State (4, 2, 4) V = 90.5  Best Action: A3  State (4, 2, 4) V = 90.5  Best Action: A3  State (4, 2, 4) V = 90.6  Best Action: A3  State (4, 2, 4) V = 90.6  Best Action: A3  State (4, 3, 3) V = 93.0  Best Action: A3  State (4, 3, 3) V = 93.0  Best Action: A3  State (4, 3, 3) V = 93.0  Best Action: A3  State (4, 3, 3) V = 93.0  Best Action: A3  State (4, 3, 3) V = 93.0  Best Action: A3  State (4, 3, 3) V = 93.0  Best Action: A3  State (4, 3, 3) V = 93.0  Best Action: A3  State (4, 4, 1) V = 91.0  Best Action: A3  State (4, 4, 1) V = 91.0  Best Action: A3  State (4, 3, 3) V = 93.0  Best Action: A3  State (4, 4, 1) V = 91.0  Best Action: A3  State (4, 4, 1) V = 91.0  Best Action: A3  State (4, 4, 1) V = 91.0  Best Action: A3  State (4, 4, 1) V = 91.0  Best Action: A3  State (4, 4, 1) V = 91.0  Best Action: A3  State (4, 4, 1) V = 91.0  Best Action: A3  State (4, 4, 1) V = 91.0  Best Action: A3  State (4, 4, 1) V = 91.0  Best Action: A3  State (4, 4, 1) V = 91.0  Best Action: A3  State (4, 4, 4) V = 90.0	State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action Iteration 8: State (1, 1, 1) V = 89.5 Best Action: A1 State (1, 1, 3) V = 89.5 Best Action: A3 State (1, 1, 4) V = 89.0 Best Action: A3 State (1, 2, 1) V = 91.0 Best Action: A3 State (1, 2, 2) V = 90.0 Best Action: A3 State (1, 2, 3) V = 90.0 Best Action: A3 State (1, 2, 3) V = 90.5 Best Action: A3 State (1, 2, 3) V = 90.5 Best Action: A3 State (1, 3, 1) V = 91.5 Best Action: A3 State (1, 3, 4) V = 91.0 Best Action: A3 State (1, 4, 3) V = 90.5 Best Action: A3 State (1, 4, 3) V = 90.5 Best Action: A3 State (1, 4, 3) V = 90.5 Best Action: A3 State (1, 4, 4) V = 93.5 Best Action: A3 State (1, 4, 3) V = 93.5 Best Action: A3 State (1, 4, 3) V = 93.5 Best Action: A3 State (1, 5, 1) V = 93.5 Best Action: A3 State (1, 5, 1) V = 93.5 Best Action: A3 State (1, 5, 3) V = 91.0 Best Action: A3 State (1, 5, 3) V = 91.0 Best Action: A3 Best Action: A3 State (1, 5, 3) V = 91.0 Best Action: A3 Best	State (2, 5, 4) V = 91.5 Best Action: A3  State (2, 5, 4) V = 91.5 Best Action: A4  State (3, 1, 1) V = 88.5 Best Action: A4  State (3, 1, 2) V = 88.5 Best Action: A3  State (3, 1, 3) V = 88.0 Best Action: A3  State (3, 1, 4) V = 89.0 Best Action: A1  State (3, 2, 1) V = -100000 Best Action: No  Action  State (3, 2, 2) V = -100000 Best Action: No  Action  State (3, 2, 3) V = -100000 Best Action: No  Action  State (3, 2, 4) V = -100000 Best Action: No  Action  State (3, 2, 4) V = -100000 Best Action: No  Action  State (3, 3, 1) V = 95.5 Best Action: A2  State (3, 3, 4) V = 95.0 Best Action: A3  State (3, 4, 1) V = 96.0 Best Action: A3  State (3, 4, 1) V = 95.0 Best Action: A3  State (3, 4, 1) V = 95.0 Best Action: A3  State (3, 4, 1) V = 95.5 Best Action: A3  State (3, 4, 3) V = 95.5 Best Action: A4  State (3, 5, 1) V = 97.5 Best Action: A4  State (3, 5, 2) V = 97.5 Best Action: A3  State (3, 5, 2) V = 97.5 Best Action: A3  State (3, 5, 2) V = 97.5 Best Action: A3  State (3, 5, 2) V = 97.5 Best Action: A3  State (3, 5, 2) V = 97.5 Best Action: A3  State (3, 5, 4) V = 98.0 Best Action: A3  State (3, 5, 4) V = 98.0 Best Action: A3  State (4, 1, 1) V = 90.0 Best Action: A2  State (4, 1, 1) V = 90.0 Best Action: A2
State (2, 2, 4) V = -2.0 Best Action: A3  State (2, 2, 1) V = -100000 Best Action: No Action  State (2, 2, 2) V = -100000 Best Action: No Action  State (2, 2, 3) V = -100000 Best Action: No Action  State (2, 2, 4) V = -100000 Best Action: No Action  State (2, 3, 1) V = -100000 Best Action: No Action  State (2, 3, 1) V = -100000 Best Action: No Action  State (2, 3, 2) V = -100000 Best Action: No Action  State (2, 3, 3) V = -100000 Best Action: No Action  State (2, 3, 4) V = -100000 Best Action: No Action  State (2, 4, 1) V = -1.5 Best Action: A3  State (2, 4, 3) V = -2.0 Best Action: A3  State (2, 4, 4) V = -2.0 Best Action: A3  State (2, 4, 4) V = -2.0 Best Action: A3  State (2, 5, 1) V = -1.5 Best Action: A3  State (2, 5, 1) V = -1.5 Best Action: A3  State (2, 5, 1) V = -1.5 Best Action: A3  State (2, 5, 1) V = -1.5 Best Action: A3  State (2, 5, 1) V = -1.5 Best Action: A3  State (2, 5, 1) V = -1.5 Best Action: A3	State (3, 5, 2) v = 97.5  State (3, 5, 3) v = 97.0  State (3, 5, 4) v = 98.0  State (4, 1, 1) v = -2.5  State (4, 1, 2) v = -2.5  State (4, 2, 1) v = -2.5  State (4, 2, 2) v = -2.5  State (4, 2, 2) v = -2.5  State (4, 2, 2) v = -2.5  State (4, 2, 3) v = -3.0  State (4, 3, 3) v = 3.0  State (4, 3, 3) v = -3.0  State (4, 3, 3) v = -3.0  State (4, 3, 3) v = -3.0  State (4, 4, 3) v = -2.5  State (4, 4, 4) v = -3.0  State (4, 4, 4) v = -3.0  State (4, 4, 1) v = -1000  Action  State (4, 4, 4) v = -1000  Action  State (4, 4, 4) v = -1000  Action  State (4, 5, 1) v = 98.0  State (4, 5, 1) v = 98.5  State (4, 5, 1) v = 98.5  State (4, 5, 1) v = 98.5  State (5, 1, 1) v = -2.5  State (5, 1, 1) v = -	State (1, 2, 3) V = -5.0  State (1, 3, 1) V = -4.5  State (1, 3, 1) V = -4.5  State (1, 3, 4) V = -5.0  State (1, 3, 4) V = -5.0  State (1, 4, 1) V = 93.0  State (1, 4, 1) V = 93.0  State (1, 4, 3) V = 93.5  State (1, 4, 1) V = 93.5  State (1, 5, 1) V = -4.5  State (1, 5, 1) V = -4.5  State (1, 5, 1) V = 91.0  State (2, 1, 1) V = -4.5  State (2, 1, 1) V = -4.5  State (2, 1, 2) V = -100000  State (2, 2, 2) V = -100000  State (2, 2, 3) V = -100000  State (2, 2, 4) V = -100000  State (2, 2, 3) V = -100000  State (2, 3, 1) V = -100000  State (3, 3, 1) V = -1000000  State (3, 3, 1) V = -1000000  State (3, 3, 1) V = -1000000  State (3, 3,	Action  State (3, 3, 1) V = 95.5  State (3, 3, 3) V = 94.5  State (3, 3, 3) V = 95.0  State (3, 3, 4) V = 95.0  State (3, 4, 1) V = 96.0  State (3, 4, 1) V = 96.0  State (3, 4, 2) V = 95.0  State (3, 4, 4) V = 95.5  State (3, 4, 4) V = 95.5  State (3, 5, 1) V = 97.5  State (3, 5, 1) V = 97.5  State (3, 5, 2) V = 97.5  State (3, 5, 3) V = 97.0  State (3, 5, 4) V = 98.0  State (3, 5, 4) V = 98.0  State (4, 1, 1) V = 91.0  State (4, 1, 1) V = 91.0  State (4, 1, 1) V = 90.0  State (4, 1, 2) V = 90.0  State (4, 1, 4) V = 90.5  State (4, 2, 2) V = 90.0  State (4, 2, 3) V = 91.0  State (4, 2, 3) V = 91.0  State (4, 2, 3) V = 91.0  State (4, 3, 2) V = 90.0  State (4, 3, 3) V = 91.0  State (4, 3, 3) V = 93.0  State (4, 3, 4) V = 93.5  State (4, 4, 4) V = 90.5	State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 100 Iteration 8: State (1, 1, 1) V = 89.5 State (1, 1, 3) V = 89.0 State (1, 1, 3) V = 89.0 State (1, 2, 2) V = 90.0 State (1, 2, 2) V = 90.5 State (1, 2, 3) V = 90.5 State (1, 2, 4) V = 90.5 State (1, 3, 3) V = 90.5 State (1, 4, 4) V = 91.0 State (1, 4, 2) V = 90.5 State (1, 4, 2) V = 90.5 State (1, 4, 3) V = 91.0 State (1, 4, 2) V = 90.5 State (1, 5, 1) V = 90.5 State (1, 5, 1) V = 90.5 State (1, 5, 1) V = 90.5 State (1, 5, 3) V = 91.0 State (1, 5, 3) V = 91.0 State (1, 5, 4) V = 91.0 State (1, 5, 4	State (2, 5, 3) V = 91.5 Best Action: A3  State (3, 1, 1) V = 88.5 Best Action: A4  State (3, 1, 2) V = 88.5 Best Action: A4  State (3, 1, 3) V = 88.0 Best Action: A3  State (3, 1, 4) V = 89.0 Best Action: A1  State (3, 2, 1) V = -100000 Best Action: No  Action  State (3, 2, 2) V = -100000 Best Action: No  Action  State (3, 2, 3) V = -100000 Best Action: No  Action  State (3, 2, 3) V = -100000 Best Action: No  Action  State (3, 2, 4) V = -100000 Best Action: No  Action  State (3, 3, 1) V = 95.5 Best Action: A2  State (3, 3, 3) V = 95.0 Best Action: A3  State (3, 4, 2) V = 95.0 Best Action: A4  State (3, 4, 3) V = 95.0 Best Action: A1  State (3, 4, 3) V = 95.0 Best Action: A3  State (3, 4, 3) V = 95.0 Best Action: A3  State (3, 4, 3) V = 95.0 Best Action: A3  State (3, 4, 3) V = 95.0 Best Action: A3  State (3, 4, 2) V = 95.0 Best Action: A3  State (3, 4, 2) V = 95.0 Best Action: A3  State (3, 4, 2) V = 95.0 Best Action: A3  State (3, 4, 2) V = 95.0 Best Action: A3  State (3, 4, 2) V = 95.0 Best Action: A3  State (3, 5, 3) V = 97.5 Best Action: A3  State (3, 5, 3) V = 97.5 Best Action: A4  State (3, 5, 3) V = 97.0 Best Action: A3  State (3, 5, 3) V = 97.0 Best Action: A3  State (3, 5, 4) V = 98.0 Best Action: A3  State (3, 5, 4) V = 98.0 Best Action: A3

```
State (4, 1, 4) V = 90.5 Best Action: A3
State (4, 2, 1) V = 91.5 Best Action: A1
State (4, 2, 2) V = 90.5 Best Action: A3
State (4, 2, 3) V = 91.0 Best Action: A4
State (4, 2, 4) V = 91.0 Best Action: A3
State (4, 3, 1) V = 93.0 Best Action: A3
State (4, 3, 2) V = 93.0 Best Action: A4
State (4, 3, 3) V = 93.5 Best Action: A1
State (4, 3, 4) V = 92.5 Best Action: A3
State (4, 4, 1) V = -1000 Best Action: No
 Action
State (4, 4, 2) V = -1000 Best Action: No
Action
State (4, 4, 3) V = -1000 Best Action: No
Action
State (4, 4, 4) V = -1000 Best Action: No
Action
State (4, 5, 1) V = 98.0 Best Action: A4
State (4, 5, 2) V = 98.0 Best Action: A3
State (4, 5, 4) V = 97.5
State (4, 5, 4) V = 98.5
State (4, 5, 4) V = 98.5
State (5, 1, 1) V = 90.5
State (5, 1, 2) V = 89.5
State (5, 1, 3) V = 90.0 Best Action: A4
 State (5, 1, 4) V = 90.0 Rest Action: A3
State (5, 2, 1) V = 91.0
State (5, 2, 2) V = 90.0
State (5, 2, 3) V = 90.5 Best Action: A4
State (5, 2, 4) V = 90.5 Rest Action: A3
State (5, 3, 1) V = 92.5 Best Action: A3
State (5, 3, 1) V = 92.5
State (5, 3, 2) V = 92.5
State (5, 3, 3) V = 93.0
State (5, 3, 4) V = 92.0 Best Action: A3
State (5, 4, 1) V = 98.5 Best Action: A1
State (5, 4, 2) V = 97.5 Best Action: A3
State (5, 4, 2) V = 97.5 Best Action: A3
State (5, 4, 3) V = 98.0 Best Action: A4
State (5, 4, 4) V = 98.0 Best Action: A3
State (5, 5, 1) V = 100 Best Action: No Action
State (5, 5, 2) V = 100 Best Action: No Action
State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action Iteration 10: State (1, 1, 1) V = 89.5 Best Action: A1
State (1, 1, 2) V = 88.5 Best Action: A3
State (1, 1, 3) V = 89.0 Best Action: A4
State (1, 1, 4) V = 89.0 Best Action: A3
State (1, 2, 1) V = 91.0 Best Action: A2
State (1, 2, 2) V = 90.0 Best Action: A3
State (1, 2, 3) V = 90.5 Best Action: A4
State (1, 2, 4) V = 90.5
State (1, 3, 1) V = 91.5
State (1, 3, 2) V = 90.5
State (1, 3, 3) V = 91.0
State (1, 3, 3) V = 91.0
State (1, 3, 3) V = 91.0
Sest Action: A3
State (1, 3, 3) V = 91.0
State (1, 3, 4) V = 91.0 Best Action: A3
State (1, 4, 1) V = 93.0 Best Action: A4
State (1, 4, 2) V = 93.0 Best Action: A3
State (1, 4, 3) V = 92.5 Best Action: A3
State (1, 4, 4) V = 93.5 Best Action: A2
State (1, 5, 1) V = 90.5 Best Action: A3
State (1, 5, 2) V = 91.5 Best Action: A1
State (1, 5, 3) V = 91.0 Best Action: A3
State (1, 5, 4) V = 91.0 Best Action: A4
State (2, 1, 1) V = 88.0 Best Action: A4
State (2, 1, 2) V = 88.0 Best Action: A3
State (2, 1, 3) V = 87.5 Rest Action: A1
State (2, 1, 3) V = 87.5 Best Action: A1
State (2, 1, 4) V = 88.5 Best Action: A2
State (2, 2, 1) V = -100000 Best Action: No
Action
State (2, 2, 2) V = -100000 Best Action: No
Action
 State (2. 2. 3) V = -100000 Best Action: No
Action
State (2, 2, 4) V = -100000 Best Action: No
State (2, 3, 1) V = -100000 Best Action: No
 State (2, 3, 2) V = -100000 Best Action: No
State (2, 3, 3) V = -100000 Best Action: No
Action
State (2, 3, 4) V = -100000 Best Action: No Action
State (2, 4, 1) V = 93.5 Best Action: A4
State (2, 4, 2) V = 93.5 Best Action: A3
State (2, 4, 3) V = 93.0 Best Action: A3
State (2, 4, 4) V = 94.0 Best Action: A1
State (2, 5, 1) V = 91.0 Best Action: A3
State (2, 5, 2) V = 92.0 Best Action: A1
State (2, 5, 3) V = 91.5 Best Action: A3
State (2, 5, 4) V = 91.5 Best Action: A4
State (3, 1, 1) V = 88.5 Best Action: A4
State (3, 1, 2) V = 88.5 Best Action: A3
State (3, 1, 3) V = 88.0 Best Action: A3
State (3, 1, 4) V = 89.0 Best Action: A1
State (3, 2, 1) V = -100000 Best Action: No
 State (3, 2, 2) V = -100000 Best Action: No
Action
State (3, 2, 3) V = -100000 Best Action: No
Action
State (3, 2, 4) V = -100000 Best Action: No
Action
State (3, 3, 1) V = 95.5
State (3, 3, 2) V = 94.5
Best Action: A2
Best Action: A3
State (3, 3, 3) V = 95.0 Best Action: A4
State (3, 3, 4) V = 95.0 Best Action: A3
State (3, 4, 1) V = 96.0 Best Action: A1
State (3, 4, 2) V = 95.0 Best Action: A3
State (3, 4, 3) V = 95.5 Best Action: A4
State (3, 4, 4) V = 95.5 Best Action: A3
State (3, 5, 1) V = 97.5 Best Action: A4
State (3, 5, 2) V = 97.5 Best Action: A4
State (3, 5, 2) V = 97.0 Best Action: A3
State (3, 5, 3) V = 97.0 Best Action: A3
State (3, 5, 4) V = 98.0 Best Action: A2
State (4, 1, 1) V = 91.0 Best Action: A2
State (4, 1, 2) V = 90.0 Best Action: A3
State (4, 1, 2) V = 90.5 Best Action: A3
State (4, 1, 4) V = 90.5 Best Action: A3
State (4, 2, 1) V = 91.5 Best Action: A1
State (4, 2, 2) V = 90.5 Best Action: A3
State (4, 2, 3) V = 91.0 Best Action: A4
State (4, 2, 4) V = 91.0 Best Action: A3
State (4, 3, 1) V = 93.0 Best Action: A3
State (4, 3, 2) V = 93.0 Best Action: A4
State (4, 3, 3) V = 93.5 Best Action: A1
State (4. 3. 4) V = 92.5 Rest Action: A3
 State (4, 4, 1) V = -1000 Best Action: No
Action
State (4, 4, 2) V = -1000 Best Action: No
Action
State (4, 4, 3) V = -1000 Best Action: No
 State (4, 4, 4) V = -1000 Best Action: No
State (4, 5, 1) V = 98.0 Best Action: A4
State (4, 5, 2) V = 98.0 Best Action: A3
State (4, 5, 3) V = 97.5
State (4, 5, 4) V = 98.5
State (4, 5, 4) V = 98.5
State (5, 1, 1) V = 90.5
Best Action: A1
State (5, 1, 1) V = 90.5
State (5, 1, 2) V = 89.5 Best Action: A3
State (5, 1, 3) V = 90.0 Best Action: A4
State (5, 2, 3) V = 90.0 Sest Action: A3
State (5, 2, 1) V = 91.0 Best Action: A1
State (5, 2, 2) V = 90.0 Best Action: A3
State (5, 2, 3) V = 90.5 Best Action: A4
State (5, 2, 4) V = 90.5 Best Action: A3
State (5, 3, 1) V = 92.5
State (5, 3, 2) V = 92.5
State (5, 3, 3) V = 93.0
State (5, 3, 3) V = 93.0
Best Action: A2
State (5, 3, 4) V = 92.0 Best Action: A3
State (5. 4. 1) V = 98.5 Best Action: A1
 State (5, 4, 2) V = 97.5 Rest Action: A3
State (5, 4, 2) V = 97.3 Best Action: A3
State (5, 4, 4) V = 98.0 Best Action: A4
State (5, 4, 4) V = 98.0 Best Action: A3
State (5, 5, 1) V = 100 Best Action: No Action
State (5, 5, 2) V = 100 Best Action: No Action
State (5, 5, 3) V = 100 Best Action: No Action
State (5, 5, 4) V = 100 Best Action: No Action
```

Ans D)	State (3, 1, 2) V = -1.22 Best Action: A3 State (3, 1, 3) V = -1.48 Best Action: A3	State (5, 2, 2) V = -1.68 Best Action: A3 State (5, 2, 3) V = -1.84 Best Action: A3	State (2, 3, 3) V = -100000 Best Action: No Action	State (4, 4, 3) V = -1000 Best Action: No Action	State (2, 1, 4) V = 7.75 Best Action: A2 State (2, 2, 1) V = -100000 Best Action: No
Iteration 1:	State (3, 1, 4) V = -1.48 Best Action: A3	State (5, 2, 4) V = -1.84 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No Action	State (4, 4, 4) V = -1000 Best Action: No Action	Action
State (1, 1, 1) V = -0.5 Best Action: A3 State (1, 1, 2) V = -0.5 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action	State (5, 3, 1) V = -1.68 Best Action: A3 State (5, 3, 2) V = -1.68 Best Action: A3 State (5, 3, 2) V = -2.08 Best Action: A3	State (2, 4, 1) V = 22.57 Best Action: A4	State (4, 5, 1) V = 62.3 Best Action: A4	State (2, 2, 2) V = -100000 Best Action: No Action
State (1, 1, 3) V = -0.9 Best Action: A3 State (1, 1, 4) V = -0.9 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 3) V = 28.02 Best Action: A2 State (5, 3, 4) V = -1.84 Best Action: A3	State (2, 4, 2) V = 22.57 Best Action: A3 State (2, 4, 3) V = 17.56 Best Action: A3	State (4, 5, 2) V = 62.3 Best Action: A3 State (4, 5, 3) V = 49.34 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No Action
State (1, 2, 1) V = -0.5 Best Action: A3 State (1, 2, 2) V = -0.5 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No Action	State (5, 4, 1) V = 78.5 Best Action: A1 State (5, 4, 2) V = 49.34 Best Action: A3	State (2, 4, 4) V = 28.84 Best Action: A1 State (2, 5, 1) V = -2.16 Best Action: A3	State (4, 5, 4) V = 78.5 Best Action: A1 State (5, 1, 1) V = 15.54 Best Action: A2	State (2, 2, 4) V = -100000 Best Action: No Action
State (1, 2, 3) V = -0.9 Best Action: A3 State (1, 2, 4) V = -0.9 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No Action	State (5, 4, 3) V = 62.3 Best Action: A4 State (5, 4, 4) V = 62.3 Best Action: A3	State (2, 5, 2) V = 16.56 Best Action: A1 State (2, 5, 3) V = 12.75 Best Action: A3	State (5, 1, 2) V = 9.04 Best Action: A3 State (5, 1, 3) V = 11.93 Best Action: A4	State (2, 3, 1) V = -100000 Best Action: No Action
State (1, 3, 1) V = -0.5 Best Action: A3 State (1, 3, 2) V = -0.5 Best Action: A3	State (3, 3, 1) V = -1.22 Best Action: A3 State (3, 3, 2) V = -1.22 Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action	State (2, 5, 4) V = 12.75 Best Action: A4 State (3, 1, 1) V = -2.16 Best Action: A3	State (5, 1, 4) V = 11.93 Best Action: A3 State (5, 2, 1) V = 16.04 Best Action: A1	State (2, 3, 2) V = -100000 Best Action: No Action
State (1, 3, 3) V = -0.9 Best Action: A3	State (3, 3, 3) V = -1.48 Best Action: A3 State (3, 3, 4) V = -1.48 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = -2.16 Best Action: A3 State (3, 1, 3) V = -2.23 Best Action: A3	State (5, 2, 2) V = 9.36 Best Action: A3 State (5, 2, 3) V = 12.33 Best Action: A4	State (2, 3, 3) V = -100000 Best Action: No Action
State (1, 3, 4) V = -0.9 Best Action: A3 State (1, 4, 1) V = -0.5 Best Action: A3	State (3, 4, 1) V = -1.22 Best Action: A3 State (3, 4, 2) V = -1.22 Best Action: A3	Iteration 4: State (1, 1, 1) V = -1.97 Best Action: A3	State (3, 1, 4) V = -2.23 Best Action: A3 State (3, 2, 1) V = -100000 Best Action: No	State (5, 2, 4) V = 12.33 Best Action: A3 State (5, 3, 1) V = 21.92 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No Action
State (1, 4, 2) V = -0.5 Best Action: A3 State (1, 4, 3) V = -0.9 Best Action: A3	State (3, 4, 3) V = -1.48 Best Action: A3	State (1, 1, 2) V = -1.97 Best Action: A3	Action	State (5, 3, 2) V = 21.92 Best Action: A4	State (2, 4, 1) V = 22.57 Best Action: A4
State (1, 4, 4) V = -0.9 Best Action: A3 State (1, 5, 1) V = -0.5 Best Action: A3	State (3, 4, 4) V = -1.48 Best Action: A3 State (3, 5, 1) V = 61.9 Best Action: A4	State (1, 1, 3) V = -2.08 Best Action: A3 State (1, 1, 4) V = -2.08 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 3) V = 28.02 Best Action: A2 State (5, 3, 4) V = 17.04 Best Action: A3	State (2, 4, 2) V = 22.57 Best Action: A3 State (2, 4, 3) V = 17.56 Best Action: A3
State (1, 5, 2) V = -0.5 Best Action: A3 State (1, 5, 3) V = -0.9 Best Action: A3	State (3, 5, 2) V = 61.9 Best Action: A3 State (3, 5, 3) V = 49.02 Best Action: A3	State (1, 2, 1) V = -1.97 Best Action: A3 State (1, 2, 2) V = -1.97 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No Action	State (5, 4, 1) V = 78.5 Best Action: A1 State (5, 4, 2) V = 49.34 Best Action: A3	State (2, 4, 4) V = 28.84 Best Action: A1 State (2, 5, 1) V = 9.7 Best Action: A3
State (1, 5, 4) V = -0.9 Best Action: A3 State (2, 1, 1) V = -0.5 Best Action: A3	State (3, 5, 4) V = 78.0 Best Action: A2 State (4, 1, 1) V = -1.22 Best Action: A3	State (1, 2, 3) V = -2.08 Best Action: A3 State (1, 2, 4) V = -2.08 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No Action	State (5, 4, 3) V = 62.3 Best Action: A4 State (5, 4, 4) V = 62.3 Best Action: A3	State (2, 5, 2) V = 16.56 Best Action: A1 State (2, 5, 3) V = 12.75 Best Action: A3
State (2, 1, 2) V = -0.5 Best Action: A3 State (2, 1, 3) V = -0.9 Best Action: A3	State (4, 1, 2) V = -1.22 Best Action: A3 State (4, 1, 3) V = -1.48 Best Action: A3	State (1, 3, 1) V = -1.97 Best Action: A3 State (1, 3, 2) V = -1.97 Best Action: A3	State (3, 3, 1) V = 47.52 Best Action: A2 State (3, 3, 2) V = 29.52 Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action	State (2, 5, 4) V = 12.75 Best Action: A4 State (3, 1, 1) V = 6.1 Best Action: A4
State (2, 1, 4) V = -0.9 Best Action: A3	State (4, 1, 4) V = -1.48 Best Action: A3 State (4, 2, 1) V = -1.22 Best Action: A3	State (1, 3, 3) V = -2.08 Best Action: A3 State (1, 3, 4) V = -2.08 Best Action: A3	State (3, 3, 3) V = 37.52 Best Action: A4 State (3, 3, 4) V = 37.52 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = 6.1 Best Action: A3 State (3, 1, 3) V = 4.7 Best Action: A2
State (2, 2, 1) V = -100000 Best Action: No Action	State (4, 2, 2) V = -1.22 Best Action: A3 State (4, 2, 3) V = -1.48 Best Action: A3	State (1, 4, 1) V = -1.97 Best Action: A3 State (1, 4, 2) V = -1.97 Best Action: A3	State (3, 4, 1) V = 48.02 Best Action: A1 State (3, 4, 2) V = 29.84 Best Action: A3	Iteration 7: State (1, 1, 1) V = 11.09 Best Action: A1	State (3, 1, 4) V = 8.25 Best Action: A1 State (3, 2, 1) V = -100000 Best Action: No
State (2, 2, 2) V = -100000 Best Action: No Action	State (4, 2, 4) V = -1.48 Best Action: A3	State (1, 4, 3) V = -2.08 Best Action: A3	State (3, 4, 3) V = 37.92 Best Action: A4	State (1, 1, 2) V = -2.36 Best Action: A3	Action
State (2, 2, 3) V = -100000 Best Action: No Action	State (4, 3, 1) V = -1.22 Best Action: A3 State (4, 3, 2) V = -1.22 Best Action: A3	State (1, 4, 4) V = 28.34 Best Action: A2 State (1, 5, 1) V = -1.97 Best Action: A3	State (3, 4, 4) V = 37.92 Best Action: A3 State (3, 5, 1) V = 61.9 Best Action: A4	State (1, 1, 3) V = 8.37 Best Action: A4 State (1, 1, 4) V = 8.37 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No Action
State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 3) V = -1.48 Best Action: A3 State (4, 3, 4) V = -1.48 Best Action: A3	State (1, 5, 2) V = -1.97 Best Action: A3 State (1, 5, 3) V = -2.08 Best Action: A3	State (3, 5, 2) V = 61.9 Best Action: A3 State (3, 5, 3) V = 49.02 Best Action: A3	State (1, 2, 1) V = 15.74 Best Action: A2 State (1, 2, 2) V = 9.17 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No Action
State (2, 3, 1) V = -100000 Best Action: No Action	State (4, 4, 1) V = -1000 Best Action: No Action	State (1, 5, 4) V = -2.08 Best Action: A3 State (2, 1, 1) V = -1.97 Best Action: A3	State (3, 5, 4) V = 78.0 Best Action: A2 State (4, 1, 1) V = 15.86 Best Action: A2	State (1, 2, 3) V = 12.09 Best Action: A4 State (1, 2, 4) V = 12.09 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No Action
State (2, 3, 2) V = -100000 Best Action: No Action	State (4, 4, 2) V = -1000 Best Action: No Action	State (2, 1, 2) V = -1.97 Best Action: A3 State (2, 1, 3) V = -2.08 Best Action: A3	State (4, 1, 2) V = -2.16 Best Action: A3 State (4, 1, 3) V = 12.19 Best Action: A4	State (1, 3, 1) V = 16.24 Best Action: A1 State (1, 3, 2) V = 9.49 Best Action: A3	State (3, 3, 1) V = 47.52 Best Action: A2 State (3, 3, 2) V = 29.52 Best Action: A3
State (2, 3, 3) V = -100000 Best Action: No	State (4, 4, 3) V = -1000 Best Action: No Action	State (2, 1, 4) V = -2.08 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No	State (4, 1, 4) V = 12.19 Best Action: A3 State (4, 2, 1) V = 16.36 Best Action: A1	State (1, 3, 3) V = 12.49 Best Action: A4 State (1, 3, 4) V = 12.49 Best Action: A3	State (3, 3, 3) V = 37.52 Best Action: A4 State (3, 3, 4) V = 37.52 Best Action: A3
Action State (2, 3, 4) V = -100000 Best Action: No	State (4, 4, 4) V = -1000 Best Action: No	Action	State (4, 2, 2) V = -2.16 Best Action: A3	State (1, 4, 1) V = 22.17 Best Action: A4	State (3, 4, 1) V = 48.02 Best Action: A1
Action State (2, 4, 1) V = -0.5 Best Action: A3	Action State (4, 5, 1) V = 62.3 Best Action: A4	State (2, 2, 2) V = -100000 Best Action: No Action	State (4, 2, 3) V = 12.59 Best Action: A4 State (4, 2, 4) V = 12.59 Best Action: A3	State (1, 4, 2) V = 22.17 Best Action: A3 State (1, 4, 3) V = 17.24 Best Action: A3	State (3, 4, 2) V = 29.84 Best Action: A3 State (3, 4, 3) V = 37.92 Best Action: A4
State (2, 4, 2) V = -0.5 Best Action: A3 State (2, 4, 3) V = -0.9 Best Action: A3	State (4, 5, 2) V = 62.3 Best Action: A3 State (4, 5, 3) V = 49.34 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No Action	State (4, 3, 1) V = 22.32 Best Action: A3 State (4, 3, 2) V = 22.32 Best Action: A4	State (1, 4, 4) V = 28.34 Best Action: A2 State (1, 5, 1) V = 9.49 Best Action: A3	State (3, 4, 4) V = 37.92 Best Action: A3 State (3, 5, 1) V = 61.9 Best Action: A4
State (2, 4, 4) V = -0.9 Best Action: A3 State (2, 5, 1) V = -0.5 Best Action: A3	State (4, 5, 4) V = 78.5 Best Action: A1 State (5, 1, 1) V = -1.22 Best Action: A3	State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 3) V = 28.52 Best Action: A1 State (4, 3, 4) V = 17.36 Best Action: A3	State (1, 5, 2) V = 16.24 Best Action: A1 State (1, 5, 3) V = 12.49 Best Action: A3	State (3, 5, 2) V = 61.9 Best Action: A3 State (3, 5, 3) V = 49.02 Best Action: A3
State (2, 5, 2) V = -0.5 Best Action: A3	State (5, 1, 2) V = -1.22 Best Action: A3 State (5, 1, 3) V = -1.48 Best Action: A3	State (2, 3, 1) V = -100000 Best Action: No Action	State (4, 4, 1) V = -1000 Best Action: No Action	State (1, 5, 4) V = 12.49 Best Action: A4 State (2, 1, 1) V = 5.7 Best Action: A4	State (3, 5, 4) V = 78.0 Best Action: A2 State (4, 1, 1) V = 15.86 Best Action: A2
State (2, 5, 3) V = -0.9 Best Action: A3 State (2, 5, 4) V = -0.9 Best Action: A3	State (5, 1, 4) V = -1.48 Best Action: A3	State (2, 3, 2) V = -100000 Best Action: No	State (4, 4, 2) V = -1000 Best Action: No	State (2, 1, 2) V = 5.7 Best Action: A3	State (4, 1, 2) V = 9.25 Best Action: A3
State (3, 1, 1) V = -0.5 Best Action: A3 State (3, 1, 2) V = -0.5 Best Action: A3	State (5, 2, 1) V = -1.22 Best Action: A3 State (5, 2, 2) V = -1.22 Best Action: A3	Action State (2, 3, 3) V = -100000 Best Action: No	Action State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 3) V = 5.2 Best Action: A1 State (2, 1, 4) V = 7.75 Best Action: A2	State (4, 1, 3) V = 12.19 Best Action: A4 State (4, 1, 4) V = 12.19 Best Action: A3
State (3, 1, 3) V = -0.9 Best Action: A3 State (3, 1, 4) V = -0.9 Best Action: A3	State (5, 2, 3) V = -1.48 Best Action: A3 State (5, 2, 4) V = -1.48 Best Action: A3	Action State (2, 3, 4) V = -100000 Best Action: No	Action State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No Action	State (4, 2, 1) V = 16.36 Best Action: A1 State (4, 2, 2) V = 9.57 Best Action: A3
State (3, 2, 1) V = -100000 Best Action: No Action	State (5, 3, 1) V = -1.22 Best Action: A3 State (5, 3, 2) V = -1.22 Best Action: A3	Action State (2, 4, 1) V = -1.97 Best Action: A3	Action State (4, 5, 1) V = 62.3 Best Action: A4	State (2, 2, 2) V = -100000 Best Action: No Action	State (4, 2, 3) V = 12.59 Best Action: A4 State (4, 2, 4) V = 12.59 Best Action: A3
State (3, 2, 2) V = -100000 Best Action: No	State (5, 3, 3) V = -1.48 Best Action: A3 State (5, 3, 4) V = -1.48 Best Action: A3	State (2, 4, 2) V = -1.97 Best Action: A3 State (2, 4, 3) V = -2.08 Best Action: A3	State (4, 5, 2) V = 62.3 Best Action: A3 State (4, 5, 3) V = 49.34 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No Action	State (4, 3, 1) V = 22.32 Best Action: A3 State (4, 3, 2) V = 22.32 Best Action: A4
Action State (3, 2, 3) V = -100000 Best Action: No	State (5, 4, 1) V = 78.5 Best Action: A1	State (2, 4, 4) V = 28.84 Best Action: A1	State (4, 5, 4) V = 78.5 Best Action: A1	State (2, 2, 4) V = -100000 Best Action: No	State (4, 3, 3) V = 28.52 Best Action: A1
Action State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 2) V = 49.34 Best Action: A3 State (5, 4, 3) V = 62.3 Best Action: A4	State (2, 5, 1) V = -1.97 Best Action: A3 State (2, 5, 2) V = -1.97 Best Action: A3	State (5, 1, 1) V = 15.54 Best Action: A2 State (5, 1, 2) V = -2.16 Best Action: A3	Action State (2, 3, 1) V = -100000 Best Action: No	State (4, 3, 4) V = 17.36 Best Action: A3 State (4, 4, 1) V = -1000 Best Action: No
Action State (3, 3, 1) V = -0.5 Best Action: A3	State (5, 4, 4) V = 62.3 Best Action: A3 State (5, 5, 1) V = 100 Best Action: No Action	State (2, 5, 3) V = -2.08 Best Action: A3 State (2, 5, 4) V = -2.08 Best Action: A3	State (5, 1, 3) V = 11.93 Best Action: A4 State (5, 1, 4) V = 11.93 Best Action: A3	Action State (2, 3, 2) V = -100000 Best Action: No	Action State (4, 4, 2) V = -1000 Best Action: No
State (3, 3, 2) V = -0.5 Best Action: A3 State (3, 3, 3) V = -0.9 Best Action: A3	State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 3) V = 100 Best Action: No Action	State (3, 1, 1) V = -1.97 Best Action: A3 State (3, 1, 2) V = -1.97 Best Action: A3	State (5, 2, 1) V = 16.04 Best Action: A1 State (5, 2, 2) V = -2.16 Best Action: A3	Action State (2, 3, 3) V = -100000 Best Action: No	Action State (4, 4, 3) V = -1000 Best Action: No
State (3, 3, 4) V = -0.9 Best Action: A3	State (5, 5, 4) V = 100 Best Action: No Action Iteration 3:	State (3, 1, 3) V = -2.08 Best Action: A3 State (3, 1, 4) V = -2.08 Best Action: A3	State (5, 2, 3) V = 12.33 Best Action: A4 State (5, 2, 4) V = 12.33 Best Action: A3	Action State (2, 3, 4) V = -100000 Best Action: No	Action State (4, 4, 4) V = -1000 Best Action: No
State (3, 4, 1) V = -0.5 Best Action: A3 State (3, 4, 2) V = -0.5 Best Action: A3	State (1, 1, 1) V = -1.68 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No	State (5, 3, 1) V = 21.92 Best Action: A3	Action	Action
State (3, 4, 3) V = -0.9 Best Action: A3 State (3, 4, 4) V = -0.9 Best Action: A3	State (1, 1, 2) V = -1.68 Best Action: A3 State (1, 1, 3) V = -1.84 Best Action: A3	Action State (3, 2, 2) V = -100000 Best Action: No	State (5, 3, 2) V = 21.92 Best Action: A4 State (5, 3, 3) V = 28.02 Best Action: A2	State (2, 4, 1) V = 22.57 Best Action: A4 State (2, 4, 2) V = 22.57 Best Action: A3	State (4, 5, 1) V = 62.3 Best Action: A4 State (4, 5, 2) V = 62.3 Best Action: A3
State (3, 5, 1) V = -0.5 Best Action: A3 State (3, 5, 2) V = -0.5 Best Action: A3	State (1, 1, 4) V = -1.84 Best Action: A3 State (1, 2, 1) V = -1.68 Best Action: A3	Action State (3, 2, 3) V = -100000 Best Action: No	State (5, 3, 4) V = 17.04 Best Action: A3 State (5, 4, 1) V = 78.5 Best Action: A1	State (2, 4, 3) V = 17.56 Best Action: A3 State (2, 4, 4) V = 28.84 Best Action: A1	State (4, 5, 3) V = 49.34 Best Action: A3 State (4, 5, 4) V = 78.5 Best Action: A1
State (3, 5, 3) V = -0.9 Best Action: A3 State (3, 5, 4) V = 78.0 Best Action: A2	State (1, 2, 2) V = -1.68 Best Action: A3 State (1, 2, 3) V = -1.84 Best Action: A3	Action State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 2) V = 49.34 Best Action: A3 State (5, 4, 3) V = 62.3 Best Action: A4	State (2, 5, 1) V = 9.7 Best Action: A3 State (2, 5, 2) V = 16.56 Best Action: A1	State (5, 1, 1) V = 15.54 Best Action: A2 State (5, 1, 2) V = 9.04 Best Action: A3
State (4, 1, 1) V = -0.5 Best Action: A3 State (4, 1, 2) V = -0.5 Best Action: A3	State (1, 2, 4) V = -1.84 Best Action: A3 State (1, 3, 1) V = -1.68 Best Action: A3	Action State (3, 3, 1) V = 47.52 Best Action: A2	State (5, 4, 4) V = 62.3 Best Action: A3 State (5, 5, 1) V = 100 Best Action: No Action	State (2, 5, 3) V = 12.75 Best Action: A3 State (2, 5, 4) V = 12.75 Best Action: A4	State (5, 1, 3) V = 11.93 Best Action: A4 State (5, 1, 4) V = 11.93 Best Action: A3
State (4, 1, 3) V = -0.9 Best Action: A3	State (1, 3, 2) V = -1.68 Best Action: A3 State (1, 3, 3) V = -1.84 Best Action: A3	State (3, 3, 2) V = 29.52 Best Action: A3 State (3, 3, 3) V = 37.52 Best Action: A4	State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 3) V = 100 Best Action: No Action	State (3, 1, 1) V = 6.1 Best Action: A4	State (5, 2, 1) V = 16.04 Best Action: A1 State (5, 2, 2) V = 9.36 Best Action: A3
State (4, 1, 4) V = -0.9 Best Action: A3 State (4, 2, 1) V = -0.5 Best Action: A3	State (1, 3, 4) V = -1.84 Best Action: A3	State (3, 3, 4) V = 37.52 Best Action: A3	State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = 6.1 Best Action: A3 State (3, 1, 3) V = 4.7 Best Action: A2	State (5, 2, 3) V = 12.33 Best Action: A4
State (4, 2, 2) V = -0.5 Best Action: A3 State (4, 2, 3) V = -0.9 Best Action: A3	State (1, 4, 1) V = -1.68 Best Action: A3 State (1, 4, 2) V = -1.68 Best Action: A3	State (3, 4, 1) V = 48.02 Best Action: A1 State (3, 4, 2) V = 29.84 Best Action: A3	Iteration 6: State (1, 1, 1) V = -2.28 Best Action: A3	State (3, 1, 4) V = 8.25 Best Action: A1 State (3, 2, 1) V = -100000 Best Action: No	State (5, 2, 4) V = 12.33 Best Action: A3 State (5, 3, 1) V = 21.92 Best Action: A3
State (4, 2, 4) V = -0.9 Best Action: A3 State (4, 3, 1) V = -0.5 Best Action: A3	State (1, 4, 3) V = -1.84 Best Action: A3 State (1, 4, 4) V = -1.84 Best Action: A3	State (3, 4, 3) V = 37.92 Best Action: A4 State (3, 4, 4) V = 37.92 Best Action: A3	State (1, 1, 2) V = -2.28 Best Action: A3 State (1, 1, 3) V = -2.32 Best Action: A3	Action State (3, 2, 2) V = -100000 Best Action: No	State (5, 3, 2) V = 21.92 Best Action: A4 State (5, 3, 3) V = 28.02 Best Action: A2
State (4, 3, 2) V = -0.5 Best Action: A3 State (4, 3, 3) V = -0.9 Best Action: A3	State (1, 5, 1) V = -1.68 Best Action: A3 State (1, 5, 2) V = -1.68 Best Action: A3	State (3, 5, 1) V = 61.9 Best Action: A4 State (3, 5, 2) V = 61.9 Best Action: A3	State (1, 1, 4) V = -2.32 Best Action: A3 State (1, 2, 1) V = 15.74 Best Action: A2	Action State (3, 2, 3) V = -100000 Best Action: No	State (5, 3, 4) V = 17.04 Best Action: A3 State (5, 4, 1) V = 78.5 Best Action: A1
State (4, 3, 4) V = -0.9 Best Action: A3	State (1, 5, 3) V = -1.84 Best Action: A3 State (1, 5, 4) V = -1.84 Best Action: A3	State (3, 5, 3) V = 49.02 Best Action: A3 State (3, 5, 4) V = 78.0 Best Action: A2	State (1, 2, 2) V = -2.28 Best Action: A3 State (1, 2, 3) V = 12.09 Best Action: A4	Action State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 2) V = 49.34 Best Action: A3 State (5, 4, 3) V = 62.3 Best Action: A4
State (4, 4, 1) V = -1000 Best Action: No Action	State (2, 1, 1) V = -1.68 Best Action: A3	State (4, 1, 1) V = -1.97 Best Action: A3	State (1, 2, 4) V = 12.09 Best Action: A3	Action	State (5, 4, 4) V = 62.3 Best Action: A3
State (4, 4, 2) V = -1000 Best Action: No Action	State (2, 1, 2) V = -1.68 Best Action: A3 State (2, 1, 3) V = -1.84 Best Action: A3	State (4, 1, 2) V = -1.97 Best Action: A3 State (4, 1, 3) V = -2.08 Best Action: A3	State (1, 3, 1) V = 16.24 Best Action: A1 State (1, 3, 2) V = -2.28 Best Action: A3	State (3, 3, 1) V = 47.52 Best Action: A2 State (3, 3, 2) V = 29.52 Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action
State (4, 4, 3) V = -1000 Best Action: No Action	State (2, 1, 4) V = -1.84 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No	State (4, 1, 4) V = -2.08 Best Action: A3 State (4, 2, 1) V = -1.97 Best Action: A3	State (1, 3, 3) V = 12.49 Best Action: A4 State (1, 3, 4) V = 12.49 Best Action: A3	State (3, 3, 3) V = 37.52 Best Action: A4 State (3, 3, 4) V = 37.52 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action
State (4, 4, 4) V = -1000 Best Action: No Action	Action State (2, 2, 2) V = -100000 Best Action: No	State (4, 2, 2) V = -1.97 Best Action: A3 State (4, 2, 3) V = -2.08 Best Action: A3	State (1, 4, 1) V = 22.17 Best Action: A4 State (1, 4, 2) V = 22.17 Best Action: A3	State (3, 4, 1) V = 48.02 Best Action: A1 State (3, 4, 2) V = 29.84 Best Action: A3	Iteration 9: State (1, 1, 1) V = 11.09 Best Action: A1
State (4, 5, 1) V = -0.5 Best Action: A3	Action State (2, 2, 3) V = -100000 Best Action: No	State (4, 2, 4) V = -2.08 Best Action: A3 State (4, 3, 1) V = 22.32 Best Action: A3	State (1, 4, 3) V = 17.24 Best Action: A3 State (1, 4, 4) V = 28.34 Best Action: A2	State (3, 4, 3) V = 37.92 Best Action: A4 State (3, 4, 4) V = 37.92 Best Action: A3	State (1, 1, 2) V = 6.2 Best Action: A3 State (1, 1, 3) V = 8.37 Best Action: A4
State (4, 5, 2) V = -0.5 Best Action: A3 State (4, 5, 3) V = -0.9 Best Action: A3	Action	State (4, 3, 2) V = 22.32 Best Action: A4	State (1, 5, 1) V = 9.49 Best Action: A3	State (3, 5, 1) V = 61.9 Best Action: A4	State (1, 1, 4) V = 8.37 Best Action: A3
State (4, 5, 4) V = 78.5 Best Action: A1 State (5, 1, 1) V = -0.5 Best Action: A3	State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 3) V = 28.52 Best Action: A1 State (4, 3, 4) V = 17.36 Best Action: A3	State (1, 5, 2) V = 16.24 Best Action: A1 State (1, 5, 3) V = 12.49 Best Action: A3	State (3, 5, 2) V = 61.9 Best Action: A3 State (3, 5, 3) V = 49.02 Best Action: A3	State (1, 2, 1) V = 15.74 Best Action: A2 State (1, 2, 2) V = 9.17 Best Action: A3
State (5, 1, 2) V = -0.5 Best Action: A3 State (5, 1, 3) V = -0.9 Best Action: A3	State (2, 3, 1) V = -100000 Best Action: No Action	State (4, 4, 1) V = -1000 Best Action: No Action	State (1, 5, 4) V = 12.49 Best Action: A4 State (2, 1, 1) V = -2.28 Best Action: A3	State (3, 5, 4) V = 78.0 Best Action: A2 State (4, 1, 1) V = 15.86 Best Action: A2	State (1, 2, 3) V = 12.09 Best Action: A4 State (1, 2, 4) V = 12.09 Best Action: A3
State (5, 1, 4) V = -0.9 Best Action: A3 State (5, 2, 1) V = -0.5 Best Action: A3	State (2, 3, 2) V = -100000 Best Action: No Action	State (4, 4, 2) V = -1000 Best Action: No Action	State (2, 1, 2) V = -2.28 Best Action: A3 State (2, 1, 3) V = -2.32 Best Action: A3	State (4, 1, 2) V = 9.25 Best Action: A3 State (4, 1, 3) V = 12.19 Best Action: A4	State (1, 3, 1) V = 16.24 Best Action: A1 State (1, 3, 2) V = 9.49 Best Action: A3
State (5, 2, 2) V = -0.5 Best Action: A3 State (5, 2, 3) V = -0.9 Best Action: A3	State (2, 3, 3) V = -100000 Best Action: No Action	State (4, 4, 3) V = -1000 Best Action: No Action	State (2, 1, 4) V = 7.75 Best Action: A2 State (2, 2, 1) V = -100000 Best Action: No	State (4, 1, 4) V = 12.19 Best Action: A3 State (4, 2, 1) V = 16.36 Best Action: A1	State (1, 3, 3) V = 12.49 Best Action: A4 State (1, 3, 4) V = 12.49 Best Action: A3
State (5, 2, 4) V = -0.9 Best Action: A3 State (5, 3, 1) V = -0.5 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No Action	State (4, 4, 4) V = -1000 Best Action: No Action	Action State (2, 2, 2) V = -100000 Best Action: No	State (4, 2, 2) V = 9.57 Best Action: A3 State (4, 2, 3) V = 12.59 Best Action: A4	State (1, 4, 1) V = 22.17 Best Action: A4 State (1, 4, 2) V = 22.17 Best Action: A3
State (5, 3, 2) V = -0.5 Best Action: A3	State (2, 4, 1) V = -1.68 Best Action: A3 State (2, 4, 2) V = -1.68 Best Action: A3	State (4, 5, 1) V = 62.3 Best Action: A4 State (4, 5, 2) V = 62.3 Best Action: A3	Action State (2, 2, 3) V = -100000 Best Action: No	State (4, 2, 4) V = 12.59 Best Action: A3 State (4, 3, 1) V = 22.32 Best Action: A3	State (1, 4, 3) V = 17.24 Best Action: A3 State (1, 4, 4) V = 28.34 Best Action: A2
State (5, 3, 3) V = -0.9 Best Action: A3 State (5, 3, 4) V = -0.9 Best Action: A3	State (2, 4, 3) V = -1.84 Best Action: A3	State (4, 5, 3) V = 49.34 Best Action: A3	Action	State (4, 3, 2) V = 22.32 Best Action: A4	State (1, 5, 1) V = 9.49 Best Action: A3
State (5, 4, 1) V = 78.5 Best Action: A1 State (5, 4, 2) V = -0.5 Best Action: A3	State (2, 4, 4) V = -1.84 Best Action: A3 State (2, 5, 1) V = -1.68 Best Action: A3	State (4, 5, 4) V = 78.5 Best Action: A1 State (5, 1, 1) V = -1.97 Best Action: A3	State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 3) V = 28.52 Best Action: A1 State (4, 3, 4) V = 17.36 Best Action: A3	State (1, 5, 2) V = 16.24 Best Action: A1 State (1, 5, 3) V = 12.49 Best Action: A3
State (5, 4, 3) V = 62.3 Best Action: A4 State (5, 4, 4) V = 62.3 Best Action: A3	State (2, 5, 2) V = -1.68 Best Action: A3 State (2, 5, 3) V = -1.84 Best Action: A3	State (5, 1, 2) V = -1.97 Best Action: A3 State (5, 1, 3) V = -2.08 Best Action: A3	State (2, 3, 1) V = -100000 Best Action: No Action	State (4, 4, 1) V = -1000 Best Action: No Action	State (1, 5, 4) V = 12.49 Best Action: A4 State (2, 1, 1) V = 5.7 Best Action: A4
State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action	State (2, 5, 4) V = -1.84 Best Action: A3 State (3, 1, 1) V = -1.68 Best Action: A3	State (5, 1, 4) V = -2.08 Best Action: A3 State (5, 2, 1) V = -1.97 Best Action: A3	State (2, 3, 2) V = -100000 Best Action: No Action	State (4, 4, 2) V = -1000 Best Action: No Action	State (2, 1, 2) V = 5.7 Best Action: A3 State (2, 1, 3) V = 5.2 Best Action: A1
State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = -1.68 Best Action: A3 State (3, 1, 3) V = -1.84 Best Action: A3	State (5, 2, 2) V = -1.97 Best Action: A3 State (5, 2, 3) V = -2.08 Best Action: A3	State (2, 3, 3) V = -100000 Best Action: No Action	State (4, 4, 3) V = -1000 Best Action: No Action	State (2, 1, 4) V = 7.75 Best Action: A2 State (2, 2, 1) V = -100000 Best Action: No
Iteration 2: State (1, 1, 1) V = -1.22 Best Action: A3	State (3, 1, 4) V = -1.84 Best Action: A3 State (3, 2, 1) V = -100000 Best Action: No	State (5, 2, 4) V = -2.08 Best Action: A3 State (5, 3, 1) V = 21.92 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No Action	State (4, 4, 4) V = -1000 Best Action: No Action	Action State (2, 2, 2) V = -100000 Best Action: No
State (1, 1, 2) V = -1.22 Best Action: A3	Action State (3, 2, 2) V = -100000 Best Action: No	State (5, 3, 2) V = 21.92 Best Action: A4 State (5, 3, 3) V = 28.02 Best Action: A2	State (2, 4, 1) V = 22.57 Best Action: A4 State (2, 4, 2) V = 22.57 Best Action: A3	State (4, 5, 1) V = 62.3 Best Action: A4 State (4, 5, 2) V = 62.3 Best Action: A3	Action State (2, 2, 3) V = -100000 Best Action: No
State (1, 1, 3) V = -1.48 Best Action: A3 State (1, 1, 4) V = -1.48 Best Action: A3  Catal (1, 2, 4) V = -1.23 Best Action: A3	Action State (3, 2, 2) V = -100000 Best Action: No  Action State (3, 2, 3) V = -100000 Best Action: No	State (5, 3, 4) V = 17.04 Best Action: A3	State (2, 4, 2) V = 22.57 Best Action: A3  State (2, 4, 3) V = 17.56 Best Action: A3  State (2, 4, 4) V = 28.84 Best Action: A1	State (4, 5, 3) V = 49.34 Best Action: A3  State (4, 5, 4) V = 78.5 Best Action: A1	Action
State (1, 2, 1) V = -1.22 Best Action: A3 State (1, 2, 2) V = -1.22 Best Action: A3	Action	State (5, 4, 1) V = 78.5 Best Action: A1 State (5, 4, 2) V = 49.34 Best Action: A3	State (2, 5, 1) V = 9.7 Best Action: A3	State (5, 1, 1) V = 15.54 Best Action: A2	State (2, 2, 4) V = -100000 Best Action: No Action
State (1, 2, 3) V = -1.48 Best Action: A3 State (1, 2, 4) V = -1.48 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No Action	State (5, 4, 3) V = 62.3 Best Action: A4 State (5, 4, 4) V = 62.3 Best Action: A3	State (2, 5, 2) V = 16.56 Best Action: A1 State (2, 5, 3) V = 12.75 Best Action: A3	State (5, 1, 2) V = 9.04 Best Action: A3 State (5, 1, 3) V = 11.93 Best Action: A4	State (2, 3, 1) V = -100000 Best Action: No Action
State (1, 3, 1) V = -1.22 Best Action: A3 State (1, 3, 2) V = -1.22 Best Action: A3	State (3, 3, 1) V = 47.52 Best Action: A2 State (3, 3, 2) V = -1.68 Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action	State (2, 5, 4) V = 12.75 Best Action: A4 State (3, 1, 1) V = -2.28 Best Action: A3	State (5, 1, 4) V = 11.93 Best Action: A3 State (5, 2, 1) V = 16.04 Best Action: A1	State (2, 3, 2) V = -100000 Best Action: No Action
State (1, 3, 3) V = -1.48 Best Action: A3 State (1, 3, 4) V = -1.48 Best Action: A3 State (1, 3, 4) V = -1.48 Best Action: A3	State (3, 3, 3) V = 37.52 Best Action: A4 State (3, 3, 4) V = 37.52 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = -2.28 Best Action: A3 State (3, 1, 3) V = -2.32 Best Action: A3	State (5, 2, 2) V = 9.36 Best Action: A3 State (5, 2, 3) V = 12.33 Best Action: A4	State (2, 3, 3) V = -100000 Best Action: No Action
State (1, 4, 1) V = -1.22 Best Action: A3	State (3, 4, 1) V = 48.02 Best Action: A1  State (3, 4, 2) V = -1.68 Best Action: A3	Iteration 5: State (1, 1, 1) V = -2.16 Best Action: A3	State (3, 1, 4) V = 8.25 Best Action: A1 State (3, 2, 1) V = -100000 Best Action: No	State (5, 2, 4) V = 12.33 Best Action: A4  State (5, 2, 4) V = 12.33 Best Action: A3  State (5, 3, 1) V = 21.92 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No Action
State (1, 4, 2) V = -1.22 Best Action: A3 State (1, 4, 3) V = -1.48 Best Action: A3	State (3, 4, 3) V = 37.92 Best Action: A4	State (1, 1, 2) V = -2.16 Best Action: A3	Action	State (5, 3, 2) V = 21.92 Best Action: A4	State (2, 4, 1) V = 22.57 Best Action: A4
State (1, 4, 4) V = -1.48 Best Action: A3 State (1, 5, 1) V = -1.22 Best Action: A3	State (3, 4, 4) V = 37.92 Best Action: A3 State (3, 5, 1) V = 61.9 Best Action: A4	State (1, 1, 3) V = -2.23 Best Action: A3 State (1, 1, 4) V = -2.23 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 3) V = 28.02 Best Action: A2 State (5, 3, 4) V = 17.04 Best Action: A3	State (2, 4, 2) V = 22.57 Best Action: A3 State (2, 4, 3) V = 17.56 Best Action: A3  State (2, 4, 4) V = 22.64 Best Action: A3
State (1, 5, 2) V = -1.22 Best Action: A3 State (1, 5, 3) V = -1.48 Best Action: A3	State (3, 5, 2) V = 61.9 Best Action: A3 State (3, 5, 3) V = 49.02 Best Action: A3	State (1, 2, 1) V = -2.16 Best Action: A3 State (1, 2, 2) V = -2.16 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No Action	State (5, 4, 1) V = 78.5 Best Action: A1 State (5, 4, 2) V = 49.34 Best Action: A3	State (2, 4, 4) V = 28.84 Best Action: A1 State (2, 5, 1) V = 9.7 Best Action: A3
State (1, 5, 4) V = -1.48 Best Action: A3 State (2, 1, 1) V = -1.22 Best Action: A3	State (3, 5, 4) V = 78.0 Best Action: A2 State (4, 1, 1) V = -1.68 Best Action: A3	State (1, 2, 3) V = -2.23 Best Action: A3 State (1, 2, 4) V = -2.23 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No Action	State (5, 4, 3) V = 62.3 Best Action: A4 State (5, 4, 4) V = 62.3 Best Action: A3	State (2, 5, 2) V = 16.56 Best Action: A1 State (2, 5, 3) V = 12.75 Best Action: A3
State (2, 1, 2) V = -1.22 Best Action: A3 State (2, 1, 3) V = -1.48 Best Action: A3	State (4, 1, 2) V = -1.68 Best Action: A3 State (4, 1, 3) V = -1.84 Best Action: A3	State (1, 3, 1) V = -2.16 Best Action: A3 State (1, 3, 2) V = -2.16 Best Action: A3	State (3, 3, 1) V = 47.52 Best Action: A2 State (3, 3, 2) V = 29.52 Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action	State (2, 5, 4) V = 12.75 Best Action: A4 State (3, 1, 1) V = 6.1 Best Action: A4
State (2, 1, 4) V = -1.48 Best Action: A3	State (4, 1, 4) V = -1.84 Best Action: A3 State (4, 2, 1) V = -1.68 Best Action: A3	State (1, 3, 3) V = -2.23 Best Action: A3 State (1, 3, 4) V = -2.23 Best Action: A3	State (3, 3, 3) V = 37.52 Best Action: A4 State (3, 3, 4) V = 37.52 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = 6.1 Best Action: A3 State (3, 1, 3) V = 4.7 Best Action: A2
State (2, 2, 1) V = -100000 Best Action: No Action	State (4, 2, 2) V = -1.68 Best Action: A3	State (1, 4, 1) V = 22.17 Best Action: A4	State (3, 4, 1) V = 48.02 Best Action: A1	Iteration 8:	State (3, 1, 4) V = 8.25 Best Action: A1
State (2, 2, 2) V = -100000 Best Action: No Action	State (4, 2, 3) V = -1.84 Best Action: A3 State (4, 2, 4) V = -1.84 Best Action: A3	State (1, 4, 2) V = 22.17 Best Action: A3 State (1, 4, 3) V = 17.24 Best Action: A3	State (3, 4, 2) V = 29.84 Best Action: A3 State (3, 4, 3) V = 37.92 Best Action: A4	State (1, 1, 1) V = 11.09 Best Action: A1 State (1, 1, 2) V = 6.2 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action
State (2, 2, 3) V = -100000 Best Action: No Action	State (4, 3, 1) V = -1.68 Best Action: A3 State (4, 3, 2) V = -1.68 Best Action: A3	State (1, 4, 4) V = 28.34 Best Action: A2 State (1, 5, 1) V = -2.16 Best Action: A3	State (3, 4, 4) V = 37.92 Best Action: A3 State (3, 5, 1) V = 61.9 Best Action: A4	State (1, 1, 3) V = 8.37 Best Action: A4 State (1, 1, 4) V = 8.37 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No Action
State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 3) V = 28.52 Best Action: A1 State (4, 3, 4) V = -1.84 Best Action: A3	State (1, 5, 2) V = 16.24 Best Action: A1 State (1, 5, 3) V = 12.49 Best Action: A3	State (3, 5, 2) V = 61.9 Best Action: A3 State (3, 5, 3) V = 49.02 Best Action: A3	State (1, 2, 1) V = 15.74 Best Action: A2 State (1, 2, 2) V = 9.17 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No Action
State (2, 3, 1) V = -100000 Best Action: No	State (4, 4, 1) V = -1000 Best Action: No Action	State (1, 5, 4) V = 12.49 Best Action: A4 State (2, 1, 1) V = -2.16 Best Action: A3	State (3, 5, 4) V = 78.0 Best Action: A2 State (4, 1, 1) V = 15.86 Best Action: A2	State (1, 2, 3) V = 12.09 Best Action: A4 State (1, 2, 4) V = 12.09 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No Action
Action State (2, 3, 2) V = -100000 Best Action: No	State (4, 4, 2) V = -1000 Best Action: No Action	State (2, 1, 2) V = -2.16 Best Action: A3  State (2, 1, 3) V = -2.23 Best Action: A3  State (2, 1, 3) V = -2.23 Best Action: A3	State (4, 1, 1) V = 13.80 Best Action: A2  State (4, 1, 2) V = 9.25 Best Action: A3  State (4, 1, 3) V = 12.19 Best Action: A4	State (1, 3, 1) V = 16.24 Best Action: A1 State (1, 3, 2) V = 9.49 Best Action: A3	State (3, 3, 1) V = 47.52 Best Action: A2 State (3, 3, 2) V = 29.52 Best Action: A3
Action State (2, 3, 3) V = -100000 Best Action: No	State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 4) V = -2.23 Best Action: A3	State (4, 1, 4) V = 12.19 Best Action: A3	State (1, 3, 3) V = 12.49 Best Action: A4	State (3, 3, 3) V = 37.52 Best Action: A4
Action State (2, 3, 4) V = -100000 Best Action: No	Action State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No Action	State (4, 2, 1) V = 16.36 Best Action: A1 State (4, 2, 2) V = 9.57 Best Action: A3	State (1, 3, 4) V = 12.49 Best Action: A3 State (1, 4, 1) V = 22.17 Best Action: A4	State (3, 3, 4) V = 37.52 Best Action: A3 State (3, 4, 1) V = 48.02 Best Action: A1
Action State (2, 4, 1) V = -1.22 Best Action: A3	Action State (4, 5, 1) V = 62.3 Best Action: A4	State (2, 2, 2) V = -100000 Best Action: No Action	State (4, 2, 3) V = 12.59 Best Action: A4 State (4, 2, 4) V = 12.59 Best Action: A3	State (1, 4, 2) V = 22.17 Best Action: A3 State (1, 4, 3) V = 17.24 Best Action: A3	State (3, 4, 2) V = 29.84 Best Action: A3 State (3, 4, 3) V = 37.92 Best Action: A4
State (2, 4, 2) V = -1.22 Best Action: A3  State (2, 4, 3) V = -1.48 Best Action: A3  State (2, 4, 3) V = -1.48 Best Action: A3	State (4, 5, 2) V = 62.3 Best Action: A3 State (4, 5, 3) V = 49.34 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No Action	State (4, 3, 1) V = 22.32 Best Action: A3 State (4, 3, 2) V = 22.32 Best Action: A4	State (1, 4, 4) V = 28.34 Best Action: A2 State (1, 5, 1) V = 9.49 Best Action: A3	State (3, 4, 4) V = 37.92 Best Action: A3 State (3, 5, 1) V = 61.9 Best Action: A4
State (2, 4, 4) V = -1.48 Best Action: A3	State (4, 5, 4) V = 78.5 Best Action: A1	State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 3) V = 28.52 Best Action: A1	State (1, 5, 2) V = 16.24 Best Action: A1	State (3, 5, 2) V = 61.9 Best Action: A3
State (2, 5, 1) V = -1.22 Best Action: A3		***************************************	State (4, 3, 4) V = 17.36 Best Action: A3	State (1, 5, 3) V = 12.49 Best Action: A3	State (3, 5, 3) V = 49.02 Best Action: A3
State (2, 5, 2) V = -1.22 Best Action: A3	State (5, 1, 1) V = -1.68 Best Action: A3 State (5, 1, 2) V = -1.68 Best Action: A3	State (2, 3, 1) V = -100000 Best Action: No	State (4, 4, 1) V = -1000 Best Action: No	State (1, 5, 4) V = 12.49 Best Action: A4	State (3, 5, 4) V = 78.0 Best Action: A2
State (2, 5, 2) V = -1.22 Best Action: A3  State (2, 5, 3) V = -1.48 Best Action: A3  State (2, 5, 4) V = -1.48 Best Action: A3			State (4, 4, 1) V = -1000 Best Action: No Action State (4, 4, 2) V = -1000 Best Action: No Action	State (1, 5, 4) V = 12.49 Best Action: A4 State (2, 1, 1) V = 5.7 Best Action: A4 State (2, 1, 2) V = 5.7 Best Action: A3 State (2, 1, 3) V = 5.2 Best Action: A1	State (3, 5, 4) V = 78.0 Best Action: A2 State (4, 1, 1) V = 15.86 Best Action: A2 State (4, 1, 2) V = 9.25 Best Action: A3 State (4, 1, 3) V = 12.19 Best Action: A4

```
State (4, 1, 4) V = 12.19 Best Action: A3
State (4, 2, 1) V = 16.36 Best Action: A1
State (4, 2, 2) V = 9.57 Best Action: A3
 State (4, 2, 3) V = 12.59 Best Action: A4
State (4, 2, 4) V = 12.59 Best Action: A3
State (4, 3, 1) V = 22.32 Best Action: A3
State (4, 3, 2) V = 22.32 Best Action: A4
  State (4, 3, 3) V = 28.52 Best Action: A1
  State (4, 3, 4) V = 17.36 Best Action: A3
  State (4, 4, 1) V = -1000 Best Action: No
  Action
State (4, 4, 2) V = -1000 Best Action: No
  Action
  State (4, 4, 3) V = -1000 Best Action: No
  Action
State (4, 4, 4) V = -1000 Best Action: No
  Action
State (4, 5, 1) V = 62.3 Best Action: A4
  State (4, 5, 2) V = 62.3 Best Action: A3
 State (4, 5, 3) V = 49.34 Best Action: A3
State (4, 5, 4) V = 78.5 Best Action: A1
State (5, 1, 1) V = 15.54 Best Action: A2
State (5, 1, 2) V = 9.04 Best Action: A3
  State (5, 1, 3) V = 11.93 Best Action: A4
State (5, 1, 4) V = 11.93 Best Action: A3
 State (5, 2, 1) V = 11.93 Best Action: A3
State (5, 2, 1) V = 16.04 Best Action: A1
State (5, 2, 2) V = 9.36 Best Action: A3
State (5, 2, 3) V = 12.33 Best Action: A4
 State (5, 2, 4) V = 12.33 Best Action: A3
State (5, 3, 1) V = 21.92 Best Action: A3
  State (5, 3, 1) V = 21.92 Best Action: A3
State (5, 3, 2) V = 21.92 Best Action: A4
State (5, 3, 3) V = 28.02 Best Action: A2
  State (5, 3, 4) V = 17.04 Best Action: A3
  State (5, 4, 1) V = 78.5 Best Action: A1
  State (5, 4, 2) V = 49.34 Best Action: A3
  State (5, 4, 2) V = 49.34 Best Action: As
State (5, 4, 3) V = 62.3 Best Action: A4
State (5, 4, 4) V = 62.3 Best Action: A3
  State (5, 5, 1) V = 100 Best Action: No Action
State (5, 5, 2) V = 100 Best Action: No Action
  State (5, 5, 3) V = 100 Best Action: No Action
 State (5, 5, 4) V = 100 Best Action: No Action Iteration 10:
State (1, 1, 1) V = 11.09 Best Action: A1
  State (1, 1, 2) V = 6.2 Best Action: A3
 State (1, 1, 3) V = 8.37 Best Action: A4
State (1, 1, 4) V = 8.37 Best Action: A3
State (1, 2, 1) V = 15.74 Best Action: A2
State (1, 2, 2) V = 9.17 Best Action: A3
State (1, 2, 2) V = 9.17 Best Action: A3
State (1, 2, 4) V = 12.09 Best Action: A4
State (1, 3, 1) V = 16.24 Best Action: A1
State (1, 3, 2) V = 9.49 Best Action: A3
State (1, 3, 3) V = 12.49 Best Action: A4
  State (1, 3, 4) V = 12.49 Best Action: A3
  State (1, 4, 1) V = 22.17 Best Action: A4
 State (1, 4, 1) v = 22.17 Best Action: A4
State (1, 4, 2) V = 22.17 Best Action: A3
State (1, 4, 3) V = 17.24 Best Action: A3
State (1, 4, 4) V = 28.34 Best Action: A2
  State (1, 5, 1) V = 9.49 Best Action: A3
State (1, 5, 1) V = 9.4.9
State (1, 5, 2) V = 16.24
State (1, 5, 3) V = 12.49
State (1, 5, 4) V = 12.49
State (2, 1, 1) V = 5.7
State (2, 1, 1) V = 5.7
Sest Action: A4
State (2, 1, 2) V = 5.7
 State (2, 1, 3) V = 5.2 Best Action: A1

State (2, 1, 4) V = 7.75 Best Action: A2

State (2, 2, 1) V = -100000 Best Action: No
  Action
  State (2, 2, 2) V = -100000 Best Action: No
  Action
  State (2. 2. 3) V = -100000 Best Action: No
 Action
State (2, 2, 3) V = -100000 Best Action: No
Best Action: No
Best Action: No
  State (2, 3, 1) V = -100000 Best Action: No
   State (2, 3, 2) V = -100000 Best Action: No
  State (2, 3, 3) V = -100000 Best Action: No
Action
State (2, 3, 4) V = -100000
Best Action: No
Action
State (2, 4, 1) V = 22.57
Best Action: A4
State (2, 4, 3) V = 17.56
Best Action: A3
State (2, 4, 4) V = 28.84
Best Action: A3
State (2, 5, 1) V = 9.7
Best Action: A1
State (2, 5, 2) V = 16.56
Best Action: A1
State (2, 5, 3) V = 12.75
Best Action: A1
State (2, 5, 4) V = 12.75
Best Action: A3
State (2, 5, 4) V = 12.75
Best Action: A3
State (2, 5, 4) V = 12.75
Best Action: A3
State (3, 1) V = 6.1
Best Action: A4
  Action
 State (3, 1, 1) V = 6.1 Best Action: A4
State (3, 1, 2) V = 6.1 Best Action: A3
State (3, 1, 3) V = 4.7 Best Action: A2
State (3, 1, 4) V = 8.25 Best Action: A1
  State (3, 2, 1) V = -100000 Best Action: No
  State (3, 2, 2) V = -100000 Best Action: No
  Action
State (3, 2, 3) V = -100000 Best Action: No
  Action
  State (3, 2, 4) V = -100000 Best Action: No
State (3, 2, 4) V = -100000 Best Action: 1
Action
State (3, 3, 1) V = 47.52 Best Action: A2
State (3, 3, 3) V = 37.52 Best Action: A3
State (3, 3, 3) V = 37.52 Best Action: A3
State (3, 3, 4) V = 37.52 Best Action: A3
 State (3, 4, 1) V = 48.02 Best Action: A1
State (3, 4, 2) V = 29.84 Best Action: A3
State (3, 4, 3) V = 37.92 Best Action: A4
  State (3, 4, 4) V = 37.92 Best Action: A3
  State (3, 5, 1) V = 61.9 Best Action: A4
  State (3, 5, 2) V = 61.9 Best Action: A3
State (3, 5, 3) V = 49.02 Best Action: A3
  State (3, 5, 4) V = 78.0 Best Action: A2
  State (4, 1, 1) V = 15.86 Best Action: A2
  State (4, 1, 2) V = 9.25 Best Action: A3
  State (4, 1, 3) V = 12.19 Best Action: A3
State (4, 1, 4) V = 12.19 Best Action: A3
  State (4, 2, 1) V = 16.36 Best Action: A1
  State (4, 2, 2) V = 9.57 Best Action: A3
 State (4, 2, 3) V = 12.59 Best Action: A4
State (4, 2, 4) V = 12.59 Best Action: A3
State (4, 3, 1) V = 22.32 Best Action: A3
State (4, 3, 2) V = 22.32 Best Action: A4
  State (4, 3, 3) V = 28.52 Best Action: A1
  State (4, 3, 4) V = 17.36 Best Action: A3
  State (4, 4, 1) V = -1000 Best Action: No
  Action State (4, 4, 2) V = -1000 Best Action: No
  Action
  State (4, 4, 3) V = -1000 Best Action: No
  State (4, 4, 4) V = -1000 Best Action: No
  State (4, 5, 1) V = 62.3 Best Action: A4
  State (4, 5, 2) V = 62.3 Best Action: A3
 State (4, 5, 3) V = 49.34 Best Action: A3
State (4, 5, 4) V = 78.5 Best Action: A1
State (5, 1, 1) V = 15.54 Best Action: A2
  State (5, 1, 2) V = 9.04 Best Action: A3
  State (5, 1, 3) V = 11.93 Best Action: A4
 State (5, 1, 4) V = 11.93 Best Action: A3
State (5, 2, 1) V = 16.04 Best Action: A1
State (5, 2, 2) V = 9.36 Best Action: A3
  State (5, 2, 3) V = 12.33 Best Action: A4
  State (5, 2, 4) V = 12.33 Best Action: A3
 State (5, 3, 1) V = 21.92 Best Action: A3
State (5, 3, 2) V = 21.92 Best Action: A4
State (5, 3, 3) V = 28.02 Best Action: A2
State (5, 3, 4) V = 17.04 Best Action: A2
  State (5, 4, 1) V = 78.5 Best Action: A1
  State (5, 4, 2) V = 49,34 Best Action: A3
  State (5, 4, 3) V = 62.3 Best Action: A4
State (5, 4, 4) V = 62.3 Best Action: A3
  State (5, 5, 1) V = 100 Best Action: No Action
  State (5, 5, 2) V = 100 Best Action: No Action
State (5, 5, 3) V = 100 Best Action: No Action
  State (5, 5, 4) V = 100 Best Action: No Action
```

Ans E)	State (3, 1, 1) V = -0.62 Best Action: A3 State (3, 1, 2) V = -0.62 Best Action: A3	State (5, 2, 1) V = -0.62 Best Action: A3 State (5, 2, 2) V = -0.62 Best Action: A3	State (2, 3, 2) V = -100000 Best Action: No Action	State (4, 4, 2) V = -1000 Best Action: No Action	State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 3) V = -0.62 Best Action: A3
Maration 1.	State (3, 1, 3) V = -0.62 Best Action: A3 State (3, 1, 4) V = -0.62 Best Action: A3	State (5, 2, 3) V = -0.62 Best Action: A3 State (5, 2, 4) V = -0.62 Best Action: A3	State (2, 3, 3) V = -100000 Best Action: No Action	State (4, 4, 3) V = -1000 Best Action: No Action	State (2, 1, 4) V = -0.62 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No
Iteration 1: State (1, 1, 1) V = -0.5 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action	State (5, 3, 1) V = -0.62 Best Action: A3 State (5, 3, 2) V = -0.62 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No Action	State (4, 4, 4) V = -1000 Best Action: No Action	Action State (2, 2, 2) V = -100000 Best Action: No
State (1, 1, 2) V = -0.5 Best Action: A3 State (1, 1, 3) V = -0.6 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No	State (5, 3, 3) V = -0.62 Best Action: A3	State (2, 4, 1) V = -0.62 Best Action: A3	State (4, 5, 1) V = 3.2 Best Action: A4	Action
State (1, 1, 4) V = -0.6 Best Action: A3 State (1, 2, 1) V = -0.5 Best Action: A3	Action State (3, 2, 3) V = -100000 Best Action: No	State (5, 3, 4) V = -0.62 Best Action: A3 State (5, 4, 1) V = 18.5 Best Action: A1	State (2, 4, 2) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3	State (4, 5, 2) V = 3.2 Best Action: A3 State (4, 5, 3) V = 0.14 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No Action
State (1, 2, 2) V = -0.5 Best Action: A3	Action State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 2) V = 0.14 Best Action: A3 State (5, 4, 3) V = 3.2 Best Action: A4	State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3	State (4, 5, 4) V = 18.5 Best Action: A1 State (5, 1, 1) V = -0.62 Best Action: A3	State (2, 2, 4) V = -100000 Best Action: No Action
State (1, 2, 3) V = -0.6 Best Action: A3 State (1, 2, 4) V = -0.6 Best Action: A3	Action	State (5, 4, 4) V = 3.2 Best Action: A3	State (2, 5, 2) V = -0.62 Best Action: A3	State (5, 1, 2) V = -0.62 Best Action: A3	State (2, 3, 1) V = -100000 Best Action: No
State (1, 3, 1) V = -0.5 Best Action: A3 State (1, 3, 2) V = -0.5 Best Action: A3	State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 2) V = -0.62 Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action	State (2, 5, 3) V = -0.62 Best Action: A3 State (2, 5, 4) V = -0.62 Best Action: A3	State (5, 1, 3) V = -0.62 Best Action: A3 State (5, 1, 4) V = -0.62 Best Action: A3	Action State (2, 3, 2) V = -100000 Best Action: No
State (1, 3, 3) V = -0.6 Best Action: A3	State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 4) V = -0.62 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 1) V = -0.62 Best Action: A3 State (3, 1, 2) V = -0.62 Best Action: A3	State (5, 2, 1) V = -0.62 Best Action: A3 State (5, 2, 2) V = -0.62 Best Action: A3	Action State (2, 3, 3) V = -100000 Best Action: No
State (1, 3, 4) V = -0.6 Best Action: A3 State (1, 4, 1) V = -0.5 Best Action: A3	State (3, 4, 1) V = -0.62 Best Action: A3	Iteration 4:	State (3, 1, 3) V = -0.62 Best Action: A3	State (5, 2, 3) V = -0.62 Best Action: A3	Action
State (1, 4, 2) V = -0.5 Best Action: A3 State (1, 4, 3) V = -0.6 Best Action: A3	State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 3) V = -0.62 Best Action: A3	State (1, 1, 1) V = -0.62 Best Action: A3 State (1, 1, 2) V = -0.62 Best Action: A3	State (3, 1, 4) V = -0.62 Best Action: A3 State (3, 2, 1) V = -100000 Best Action: No	State (5, 2, 4) V = -0.62 Best Action: A3 State (5, 3, 1) V = -0.62 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No Action
State (1, 4, 4) V = -0.6 Best Action: A3	State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 5, 1) V = 3.1 Best Action: A4	State (1, 1, 3) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3	Action State (3, 2, 2) V = -100000 Best Action: No	State (5, 3, 2) V = -0.62 Best Action: A3 State (5, 3, 3) V = -0.62 Best Action: A3	State (2, 4, 1) V = -0.62 Best Action: A3 State (2, 4, 2) V = -0.62 Best Action: A3
State (1, 5, 1) V = -0.5 Best Action: A3 State (1, 5, 2) V = -0.5 Best Action: A3	State (3, 5, 2) V = 3.1 Best Action: A3	State (1, 2, 1) V = -0.62 Best Action: A3	Action	State (5, 3, 4) V = -0.62 Best Action: A3	State (2, 4, 3) V = -0.62 Best Action: A3
State (1, 5, 3) V = -0.6 Best Action: A3 State (1, 5, 4) V = -0.6 Best Action: A3	State (3, 5, 3) V = 0.12 Best Action: A3 State (3, 5, 4) V = 18.0 Best Action: A2	State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 3) V = -0.62 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No Action	State (5, 4, 1) V = 18.5 Best Action: A1 State (5, 4, 2) V = 0.14 Best Action: A3	State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3
State (2, 1, 1) V = -0.5 Best Action: A3	State (4, 1, 1) V = -0.62 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3	State (1, 2, 4) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No Action	State (5, 4, 3) V = 3.2 Best Action: A4 State (5, 4, 4) V = 3.2 Best Action: A3	State (2, 5, 2) V = -0.62 Best Action: A3 State (2, 5, 3) V = -0.62 Best Action: A3
State (2, 1, 2) V = -0.5 Best Action: A3 State (2, 1, 3) V = -0.6 Best Action: A3	State (4, 1, 3) V = -0.62 Best Action: A3	State (1, 3, 2) V = -0.62 Best Action: A3	State (3, 3, 1) V = -0.62 Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action	State (2, 5, 4) V = -0.62 Best Action: A3
State (2, 1, 4) V = -0.6 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No	State (4, 1, 4) V = -0.62 Best Action: A3 State (4, 2, 1) V = -0.62 Best Action: A3	State (1, 3, 3) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3	State (3, 3, 2) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3	State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 3) V = 100 Best Action: No Action	State (3, 1, 1) V = -0.62 Best Action: A3 State (3, 1, 2) V = -0.62 Best Action: A3
Action	State (4, 2, 2) V = -0.62 Best Action: A3 State (4, 2, 3) V = -0.62 Best Action: A3	State (1, 4, 1) V = -0.62 Best Action: A3 State (1, 4, 2) V = -0.62 Best Action: A3	State (3, 3, 4) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3	State (5, 5, 4) V = 100 Best Action: No Action Iteration 7:	State (3, 1, 3) V = -0.62 Best Action: A3 State (3, 1, 4) V = -0.62 Best Action: A3
State (2, 2, 2) V = -100000 Best Action: No Action	State (4, 2, 4) V = -0.62 Best Action: A3	State (1, 4, 3) V = -0.62 Best Action: A3	State (3, 4, 2) V = -0.62 Best Action: A3	State (1, 1, 1) V = -0.62 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No
State (2, 2, 3) V = -100000 Best Action: No	State (4, 3, 1) V = -0.62 Best Action: A3 State (4, 3, 2) V = -0.62 Best Action: A3	State (1, 4, 4) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3	State (3, 4, 3) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3	State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 3) V = -0.62 Best Action: A3	Action State (3, 2, 2) V = -100000 Best Action: No
Action State (2, 2, 4) V = -100000 Best Action: No	State (4, 3, 3) V = -0.62 Best Action: A3 State (4, 3, 4) V = -0.62 Best Action: A3	State (1, 5, 2) V = -0.62 Best Action: A3 State (1, 5, 3) V = -0.62 Best Action: A3	State (3, 5, 1) V = 3.1 Best Action: A4 State (3, 5, 2) V = 3.1 Best Action: A3	State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 2, 1) V = -0.62 Best Action: A3	Action State (3, 2, 3) V = -100000 Best Action: No
Action State (2, 3, 1) V = -100000 Best Action: No	State (4, 4, 1) V = -1000 Best Action: No	State (1, 5, 4) V = -0.62 Best Action: A3	State (3, 5, 3) V = 0.12 Best Action: A3	State (1, 2, 2) V = -0.62 Best Action: A3	Action
Action State (2, 3, 2) V = -100000 Best Action: No	Action State (4, 4, 2) V = -1000 Best Action: No	State (2, 1, 1) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3	State (3, 5, 4) V = 18.0 Best Action: A2 State (4, 1, 1) V = -0.62 Best Action: A3	State (1, 2, 3) V = -0.62 Best Action: A3 State (1, 2, 4) V = -0.62 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No Action
Action	Action State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 3) V = -0.62 Best Action: A3 State (2, 1, 4) V = -0.62 Best Action: A3	State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 1, 3) V = -0.62 Best Action: A3	State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 2) V = -0.62 Best Action: A3	State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 2) V = -0.62 Best Action: A3
State (2, 3, 3) V = -100000 Best Action: No Action	Action	State (2, 2, 1) V = -100000 Best Action: No	State (4, 1, 4) V = -0.62 Best Action: A3	State (1, 3, 3) V = -0.62 Best Action: A3	State (3, 3, 3) V = -0.62 Best Action: A3
State (2, 3, 4) V = -100000 Best Action: No Action	State (4, 4, 4) V = -1000 Best Action: No Action	Action State (2, 2, 2) V = -100000 Best Action: No	State (4, 2, 1) V = -0.62 Best Action: A3 State (4, 2, 2) V = -0.62 Best Action: A3	State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 4, 1) V = -0.62 Best Action: A3	State (3, 3, 4) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3
State (2, 4, 1) V = -0.5 Best Action: A3	State (4, 5, 1) V = 3.2 Best Action: A4 State (4, 5, 2) V = 3.2 Best Action: A3	Action State (2, 2, 3) V = -100000 Best Action: No	State (4, 2, 3) V = -0.62 Best Action: A3 State (4, 2, 4) V = -0.62 Best Action: A3	State (1, 4, 2) V = -0.62 Best Action: A3 State (1, 4, 3) V = -0.62 Best Action: A3	State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 3) V = -0.62 Best Action: A3
State (2, 4, 2) V = -0.5 Best Action: A3 State (2, 4, 3) V = -0.6 Best Action: A3	State (4, 5, 3) V = 0.14 Best Action: A3	Action	State (4, 3, 1) V = -0.62 Best Action: A3	State (1, 4, 4) V = -0.62 Best Action: A3	State (3, 4, 4) V = -0.62 Best Action: A3
State (2, 4, 4) V = -0.6 Best Action: A3 State (2, 5, 1) V = -0.5 Best Action: A3	State (4, 5, 4) V = 18.5 Best Action: A1 State (5, 1, 1) V = -0.62 Best Action: A3	State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 2) V = -0.62 Best Action: A3 State (4, 3, 3) V = -0.62 Best Action: A3	State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 2) V = -0.62 Best Action: A3	State (3, 5, 1) V = 3.1 Best Action: A4 State (3, 5, 2) V = 3.1 Best Action: A3
State (2, 5, 2) V = -0.5 Best Action: A3	State (5, 1, 2) V = -0.62 Best Action: A3 State (5, 1, 3) V = -0.62 Best Action: A3	State (2, 3, 1) V = -100000 Best Action: No Action	State (4, 3, 4) V = -0.62 Best Action: A3 State (4, 4, 1) V = -1000 Best Action: No	State (1, 5, 3) V = -0.62 Best Action: A3 State (1, 5, 4) V = -0.62 Best Action: A3	State (3, 5, 3) V = 0.12 Best Action: A3 State (3, 5, 4) V = 18.0 Best Action: A2
State (2, 5, 3) V = -0.6 Best Action: A3 State (2, 5, 4) V = -0.6 Best Action: A3	State (5, 1, 4) V = -0.62 Best Action: A3	State (2, 3, 2) V = -100000 Best Action: No	Action	State (2, 1, 1) V = -0.62 Best Action: A3	State (4, 1, 1) V = -0.62 Best Action: A3
State (3, 1, 1) V = -0.5 Best Action: A3 State (3, 1, 2) V = -0.5 Best Action: A3	State (5, 2, 1) V = -0.62 Best Action: A3 State (5, 2, 2) V = -0.62 Best Action: A3	Action State (2, 3, 3) V = -100000 Best Action: No	State (4, 4, 2) V = -1000 Best Action: No Action	State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 3) V = -0.62 Best Action: A3	State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 1, 3) V = -0.62 Best Action: A3
State (3, 1, 3) V = -0.6 Best Action: A3	State (5, 2, 3) V = -0.62 Best Action: A3 State (5, 2, 4) V = -0.62 Best Action: A3	Action State (2, 3, 4) V = -100000 Best Action: No	State (4, 4, 3) V = -1000 Best Action: No Action	State (2, 1, 4) V = -0.62 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No	State (4, 1, 4) V = -0.62 Best Action: A3 State (4, 2, 1) V = -0.62 Best Action: A3
State (3, 1, 4) V = -0.6 Best Action: A3 State (3, 2, 1) V = -100000 Best Action: No	State (5, 3, 1) V = -0.62 Best Action: A3	Action	State (4, 4, 4) V = -1000 Best Action: No	Action	State (4, 2, 2) V = -0.62 Best Action: A3
Action	State (5, 3, 2) V = -0.62 Best Action: A3 State (5, 3, 3) V = -0.62 Best Action: A3	State (2, 4, 1) V = -0.62 Best Action: A3 State (2, 4, 2) V = -0.62 Best Action: A3	Action State (4, 5, 1) V = 3.2 Best Action: A4	State (2, 2, 2) V = -100000 Best Action: No Action	State (4, 2, 3) V = -0.62 Best Action: A3 State (4, 2, 4) V = -0.62 Best Action: A3
State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 4) V = -0.62 Best Action: A3	State (2, 4, 3) V = -0.62 Best Action: A3	State (4, 5, 2) V = 3.2 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No	State (4, 3, 1) V = -0.62 Best Action: A3
State (3, 2, 3) V = -100000 Best Action: No Action	State (5, 4, 1) V = 18.5 Best Action: A1 State (5, 4, 2) V = 0.14 Best Action: A3	State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3	State (4, 5, 3) V = 0.14 Best Action: A3 State (4, 5, 4) V = 18.5 Best Action: A1	Action State (2, 2, 4) V = -100000 Best Action: No	State (4, 3, 2) V = -0.62 Best Action: A3 State (4, 3, 3) V = -0.62 Best Action: A3
State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 3) V = 3.2 Best Action: A4 State (5, 4, 4) V = 3.2 Best Action: A3	State (2, 5, 2) V = -0.62 Best Action: A3 State (2, 5, 3) V = -0.62 Best Action: A3	State (5, 1, 1) V = -0.62 Best Action: A3 State (5, 1, 2) V = -0.62 Best Action: A3	Action State (2, 3, 1) V = -100000 Best Action: No	State (4, 3, 4) V = -0.62 Best Action: A3 State (4, 4, 1) V = -1000 Best Action: No
Action State (3, 3, 1) V = -0.5 Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action	State (2, 5, 4) V = -0.62 Best Action: A3	State (5, 1, 3) V = -0.62 Best Action: A3	Action	Action
State (3, 3, 2) V = -0.5 Best Action: A3 State (3, 3, 3) V = -0.6 Best Action: A3	State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 3) V = 100 Best Action: No Action	State (3, 1, 1) V = -0.62 Best Action: A3 State (3, 1, 2) V = -0.62 Best Action: A3	State (5, 1, 4) V = -0.62 Best Action: A3 State (5, 2, 1) V = -0.62 Best Action: A3	State (2, 3, 2) V = -100000 Best Action: No Action	State (4, 4, 2) V = -1000 Best Action: No Action
State (3, 3, 4) V = -0.6 Best Action: A3	State (5, 5, 4) V = 100 Best Action: No Action Iteration 3:	State (3, 1, 3) V = -0.62 Best Action: A3 State (3, 1, 4) V = -0.62 Best Action: A3	State (5, 2, 2) V = -0.62 Best Action: A3 State (5, 2, 3) V = -0.62 Best Action: A3	State (2, 3, 3) V = -100000 Best Action: No Action	State (4, 4, 3) V = -1000 Best Action: No Action
State (3, 4, 1) V = -0.5 Best Action: A3 State (3, 4, 2) V = -0.5 Best Action: A3	State (1, 1, 1) V = -0.62 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No	State (5, 2, 4) V = -0.62 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No	State (4, 4, 4) V = -1000 Best Action: No
State (3, 4, 3) V = -0.6 Best Action: A3 State (3, 4, 4) V = -0.6 Best Action: A3	State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 3) V = -0.62 Best Action: A3	Action State (3, 2, 2) V = -100000 Best Action: No	State (5, 3, 1) V = -0.62 Best Action: A3 State (5, 3, 2) V = -0.62 Best Action: A3	Action State (2, 4, 1) V = -0.62 Best Action: A3	Action State (4, 5, 1) V = 3.2 Best Action: A4
State (3, 5, 1) V = -0.5 Best Action: A3	State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 2, 1) V = -0.62 Best Action: A3	Action State (3, 2, 3) V = -100000 Best Action: No	State (5, 3, 3) V = -0.62 Best Action: A3 State (5, 3, 4) V = -0.62 Best Action: A3	State (2, 4, 2) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3	State (4, 5, 2) V = 3.2 Best Action: A3 State (4, 5, 3) V = 0.14 Best Action: A3
State (3, 5, 2) V = -0.5 Best Action: A3 State (3, 5, 3) V = -0.6 Best Action: A3	State (1, 2, 2) V = -0.62 Best Action: A3	Action	State (5, 4, 1) V = 18.5 Best Action: A1	State (2, 4, 4) V = -0.62 Best Action: A3	State (4, 5, 4) V = 18.5 Best Action: A1
State (3, 5, 4) V = 18.0 Best Action: A2 State (4, 1, 1) V = -0.5 Best Action: A3	State (1, 2, 3) V = -0.62 Best Action: A3 State (1, 2, 4) V = -0.62 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No Action	State (5, 4, 2) V = 0.14 Best Action: A3 State (5, 4, 3) V = 3.2 Best Action: A4	State (2, 5, 1) V = -0.62 Best Action: A3 State (2, 5, 2) V = -0.62 Best Action: A3	State (5, 1, 1) V = -0.62 Best Action: A3 State (5, 1, 2) V = -0.62 Best Action: A3
State (4, 1, 2) V = -0.5 Best Action: A3	State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 2) V = -0.62 Best Action: A3	State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 2) V = -0.62 Best Action: A3	State (5, 4, 4) V = 3.2 Best Action: A3 State (5, 5, 1) V = 100 Best Action: No Action	State (2, 5, 3) V = -0.62 Best Action: A3 State (2, 5, 4) V = -0.62 Best Action: A3	State (5, 1, 3) V = -0.62 Best Action: A3 State (5, 1, 4) V = -0.62 Best Action: A3
State (4, 1, 3) V = -0.6 Best Action: A3 State (4, 1, 4) V = -0.6 Best Action: A3	State (1, 3, 3) V = -0.62 Best Action: A3	State (3, 3, 3) V = -0.62 Best Action: A3	State (5, 5, 2) V = 100 Best Action: No Action	State (3, 1, 1) V = -0.62 Best Action: A3	State (5, 2, 1) V = -0.62 Best Action: A3
State (4, 2, 1) V = -0.5 Best Action: A3 State (4, 2, 2) V = -0.5 Best Action: A3	State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 4, 1) V = -0.62 Best Action: A3	State (3, 3, 4) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = -0.62 Best Action: A3 State (3, 1, 3) V = -0.62 Best Action: A3	State (5, 2, 2) V = -0.62 Best Action: A3 State (5, 2, 3) V = -0.62 Best Action: A3
State (4, 2, 3) V = -0.5 Best Action: A3 State (4, 2, 3) V = -0.6 Best Action: A3	State (1, 4, 2) V = -0.62 Best Action: A3 State (1, 4, 3) V = -0.62 Best Action: A3	State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 3) V = -0.62 Best Action: A3	Iteration 6: State (1, 1, 1) V = -0.62 Best Action: A3	State (3, 1, 4) V = -0.62 Best Action: A3 State (3, 2, 1) V = -100000 Best Action: No	State (5, 2, 4) V = -0.62 Best Action: A3 State (5, 3, 1) V = -0.62 Best Action: A3
State (4, 2, 4) V = -0.6 Best Action: A3 State (4, 3, 1) V = -0.5 Best Action: A3	State (1, 4, 4) V = -0.62 Best Action: A3	State (3, 4, 4) V = -0.62 Best Action: A3	State (1, 1, 2) V = -0.62 Best Action: A3	Action	State (5, 3, 2) V = -0.62 Best Action: A3
State (4, 3, 2) V = -0.5 Best Action: A3	State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 2) V = -0.62 Best Action: A3	State (3, 5, 1) V = 3.1 Best Action: A4 State (3, 5, 2) V = 3.1 Best Action: A3	State (1, 1, 3) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 3) V = -0.62 Best Action: A3 State (5, 3, 4) V = -0.62 Best Action: A3
State (4, 3, 3) V = -0.6 Best Action: A3 State (4, 3, 4) V = -0.6 Best Action: A3	State (1, 5, 3) V = -0.62 Best Action: A3	State (3, 5, 3) V = 0.12 Best Action: A3	State (1, 2, 1) V = -0.62 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No	State (5, 4, 1) V = 18.5 Best Action: A1
State (4, 4, 1) V = -1000 Best Action: No	State (1, 5, 4) V = -0.62 Best Action: A3 State (2, 1, 1) V = -0.62 Best Action: A3	State (3, 5, 4) V = 18.0 Best Action: A2 State (4, 1, 1) V = -0.62 Best Action: A3	State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 3) V = -0.62 Best Action: A3	Action State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 2) V = 0.14 Best Action: A3 State (5, 4, 3) V = 3.2 Best Action: A4
State (4, 4, 2) V = -1000 Best Action: No	State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 3) V = -0.62 Best Action: A3	State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 1, 3) V = -0.62 Best Action: A3	State (1, 2, 4) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3	Action State (3, 3, 1) V = -0.62 Best Action: A3	State (5, 4, 4) V = 3.2 Best Action: A3 State (5, 5, 1) V = 100 Best Action: No Action
Action State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 4) V = -0.62 Best Action: A3	State (4, 1, 4) V = -0.62 Best Action: A3	State (1, 3, 2) V = -0.62 Best Action: A3	State (3, 3, 2) V = -0.62 Best Action: A3	State (5, 5, 2) V = 100 Best Action: No Action
Action State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No Action	State (4, 2, 1) V = -0.62 Best Action: A3 State (4, 2, 2) V = -0.62 Best Action: A3	State (1, 3, 3) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3	State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 4) V = -0.62 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action
Action	State (2, 2, 2) V = -100000 Best Action: No Action	State (4, 2, 3) V = -0.62 Best Action: A3 State (4, 2, 4) V = -0.62 Best Action: A3	State (1, 4, 1) V = -0.62 Best Action: A3 State (1, 4, 2) V = -0.62 Best Action: A3	State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3	Iteration 9: State (1, 1, 1) V = -0.62 Best Action: A3
State (4, 5, 1) V = -0.5 Best Action: A3 State (4, 5, 2) V = -0.5 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No	State (4, 3, 1) V = -0.62 Best Action: A3	State (1, 4, 3) V = -0.62 Best Action: A3	State (3, 4, 3) V = -0.62 Best Action: A3	State (1, 1, 2) V = -0.62 Best Action: A3
State (4, 5, 3) V = -0.6 Best Action: A3 State (4, 5, 4) V = 18.5 Best Action: A1	Action State (2, 2, 4) V = -100000 Best Action: No	State (4, 3, 2) V = -0.62 Best Action: A3 State (4, 3, 3) V = -0.62 Best Action: A3	State (1, 4, 4) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3	State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 5, 1) V = 3.1 Best Action: A4	State (1, 1, 3) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3
State (5, 1, 1) V = -0.5 Best Action: A3	Action State (2, 3, 1) V = -100000 Best Action: No	State (4, 3, 4) V = -0.62 Best Action: A3 State (4, 4, 1) V = -1000 Best Action: No	State (1, 5, 2) V = -0.62 Best Action: A3 State (1, 5, 3) V = -0.62 Best Action: A3	State (3, 5, 2) V = 3.1 Best Action: A3 State (3, 5, 3) V = 0.12 Best Action: A3	State (1, 2, 1) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3
State (5, 1, 2) V = -0.5 Best Action: A3 State (5, 1, 3) V = -0.6 Best Action: A3	Action	Action	State (1, 5, 4) V = -0.62 Best Action: A3	State (3, 5, 4) V = 18.0 Best Action: A2	State (1, 2, 3) V = -0.62 Best Action: A3
State (5, 1, 4) V = -0.6 Best Action: A3 State (5, 2, 1) V = -0.5 Best Action: A3	State (2, 3, 2) V = -100000 Best Action: No Action	State (4, 4, 2) V = -1000 Best Action: No Action	State (2, 1, 1) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3	State (4, 1, 1) V = -0.62 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3	State (1, 2, 4) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3
State (5, 2, 2) V = -0.5 Best Action: A3	State (2, 3, 3) V = -100000 Best Action: No Action	State (4, 4, 3) V = -1000 Best Action: No Action	State (2, 1, 3) V = -0.62 Best Action: A3 State (2, 1, 4) V = -0.62 Best Action: A3	State (4, 1, 3) V = -0.62 Best Action: A3 State (4, 1, 4) V = -0.62 Best Action: A3	State (1, 3, 2) V = -0.62 Best Action: A3 State (1, 3, 3) V = -0.62 Best Action: A3
State (5, 2, 3) V = -0.6 Best Action: A3 State (5, 2, 4) V = -0.6 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No	State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No	State (4, 2, 1) V = -0.62 Best Action: A3	State (1, 3, 4) V = -0.62 Best Action: A3
State (5, 3, 1) V = -0.5 Best Action: A3 State (5, 3, 2) V = -0.5 Best Action: A3	Action State (2, 4, 1) V = -0.62 Best Action: A3	Action State (4, 5, 1) V = 3.2 Best Action: A4	Action State (2, 2, 2) V = -100000 Best Action: No	State (4, 2, 2) V = -0.62 Best Action: A3 State (4, 2, 3) V = -0.62 Best Action: A3	State (1, 4, 1) V = -0.62 Best Action: A3 State (1, 4, 2) V = -0.62 Best Action: A3
State (5, 3, 3) V = -0.6 Best Action: A3	State (2, 4, 2) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3	State (4, 5, 2) V = 3.2 Best Action: A3 State (4, 5, 3) V = 0.14 Best Action: A3	Action State (2, 2, 3) V = -100000 Best Action: No	State (4, 2, 4) V = -0.62 Best Action: A3 State (4, 3, 1) V = -0.62 Best Action: A3	State (1, 4, 3) V = -0.62 Best Action: A3 State (1, 4, 4) V = -0.62 Best Action: A3
State (5, 3, 4) V = -0.6 Best Action: A3 State (5, 4, 1) V = 18.5 Best Action: A1	State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3	State (4, 5, 4) V = 18.5 Best Action: A1 State (5, 1, 1) V = -0.62 Best Action: A3	Action State (2, 2, 4) V = -100000 Best Action: No	State (4, 3, 2) V = -0.62 Best Action: A3 State (4, 3, 3) V = -0.62 Best Action: A3	State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 2) V = -0.62 Best Action: A3
State (5, 4, 2) V = -0.5 Best Action: A3 State (5, 4, 3) V = 3.2 Best Action: A4	State (2, 5, 2) V = -0.62 Best Action: A3	State (5, 1, 2) V = -0.62 Best Action: A3	Action	State (4, 3, 4) V = -0.62 Best Action: A3	State (1, 5, 3) V = -0.62 Best Action: A3
State (5, 4, 4) V = 3.2 Best Action: A3	State (2, 5, 3) V = -0.62 Best Action: A3 State (2, 5, 4) V = -0.62 Best Action: A3	State (5, 1, 3) V = -0.62 Best Action: A3 State (5, 1, 4) V = -0.62 Best Action: A3	State (2, 3, 1) V = -100000 Best Action: No Action	State (4, 4, 1) V = -1000 Best Action: No Action	State (1, 5, 4) V = -0.62 Best Action: A3 State (2, 1, 1) V = -0.62 Best Action: A3
State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action	State (3, 1, 1) V = -0.62 Best Action: A3 State (3, 1, 2) V = -0.62 Best Action: A3	State (5, 2, 1) V = -0.62 Best Action: A3 State (5, 2, 2) V = -0.62 Best Action: A3	State (2, 3, 2) V = -100000 Best Action: No Action	State (4, 4, 2) V = -1000 Best Action: No Action	State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 3) V = -0.62 Best Action: A3
State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 3) V = -0.62 Best Action: A3	State (5, 2, 3) V = -0.62 Best Action: A3	State (2, 3, 3) V = -100000 Best Action: No	State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 4) V = -0.62 Best Action: A3
Iteration 2:		State (5, 2, 4) V = -0.62 Best Action: A3	Action State (2, 3, 4) V = -100000 Best Action: No	Action State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No Action
State (1, 1, 1) V = -0.62 Best Action: A3	State (3, 1, 4) V = -0.62 Best Action: A3 State (3, 2, 1) V = -100000 Best Action: No	State (5, 3, 1) V = -0.62 Best Action: A3			
State (1, 1, 2) V = -0.62 Best Action: A3		State (5, 3, 1) V = -0.62 Best Action: A3  State (5, 3, 2) V = -0.62 Best Action: A3  State (5, 3, 3) V = -0.62 Best Action: A3	Action State (2, 4, 1) V = -0.62 Best Action: A3	Action State (4, 5, 1) V = 3.2 Best Action: A4	State (2, 2, 2) V = -100000 Best Action: No Action
State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 3) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 2) V = -0.62 Best Action: A3 State (5, 3, 3) V = -0.62 Best Action: A3 State (5, 3, 4) V = -0.62 Best Action: A3	State (2, 4, 1) V = -0.62 Best Action: A3 State (2, 4, 2) V = -0.62 Best Action: A3	Action State (4, 5, 1) V = 3.2 Best Action: A4 State (4, 5, 2) V = 3.2 Best Action: A3	State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No
State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 3) V = -0.62 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action	State (5, 3, 2) V = -0.62  State (5, 3, 3) V = -0.62  State (5, 3, 4) V = -0.62  State (5, 4, 1) V = 18.5  State (5, 4, 2) V = 0.14  State (5, 4, 2) V = 0.14  State (5, 4, 2) V = 0.14	State (2, 4, 1) V = -0.62 Best Action: A3 State (2, 4, 2) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3	Action State (4, 5, 1) V = 3.2 Best Action: A4 State (4, 5, 2) V = 3.2 Best Action: A3 State (4, 5, 3) V = 0.14 Best Action: A3 State (4, 5, 4) V = 18.5 Best Action: A1	State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No
State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 2, 1) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 3) V = -0.62 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No	State (5, 3, 2) V = -0.62 Best Action: A3 State (5, 3, 3) V = -0.62 Best Action: A3 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 Best Action: A1	State (2, 4, 1) V = -0.62 Best Action: A3 State (2, 4, 2) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3	Action State $(4, 5, 1) \lor = 3.2$ Best Action: A4 State $(4, 5, 2) \lor = 3.2$ Best Action: A3 State $(4, 5, 3) \lor = 0.14$ Best Action: A3	State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action
State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 3) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 2, 1) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 4) V = 3.2 State (5, 4, 4) V = 3.2 State (5, 4, 4) V = 3.2 State (5, 5, 1) V = 100 Best Action: A3 State (5, 4, 4) V = 3.2 Best Action: A4 State (5, 5, 4, 4) V = 3.2 Best Action: A4 State (5, 5, 1) V = 100 Best Action: A3 Best Action: A3 State (5, 5, 1) V = 100 Best Action: A3 Bes	State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 4) V = -0.62  State (2, 4, 4) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 3) V = -0.62	Action State $(4, 5, 1) \lor = 3.2$ Best Action: A4 State $(4, 5, 2) \lor = 3.2$ Best Action: A3 State $(4, 5, 3) \lor = 0.14$ Best Action: A3 State $(4, 5, 4) \lor = 18.5$ Best Action: A1 State $(5, 1, 1) \lor = -0.62$ Best Action: A3 State $(5, 1, 2) \lor = -0.62$ Best Action: A3 State $(5, 1, 2) \lor = -0.62$ Best Action: A3 Best Action: A3	State (2, 2, 2) V = -100000 Best Action: No Action  State (2, 2, 3) V = -100000 Best Action: No Action  State (2, 2, 4) V = -100000 Best Action: No Action  State (2, 3, 1) V = -100000 Best Action: No Action
State (1, 1, 2) V = -0.62 Best Action: A3  State (1, 1, 3) V = -0.62 Best Action: A3  State (1, 1, 4) V = -0.62 Best Action: A3  State (1, 2, 2) V = -0.62 Best Action: A3  State (1, 2, 3) V = -0.62 Best Action: A3  State (1, 2, 4) V = -0.62 Best Action: A3  State (1, 2, 4) V = -0.62 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 2) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 4) V = 3.2 State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 0.62 State (5, 5, 3	State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 5, 4) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 4) V = -0.62  State (3, 1, 1) V = -0.62	Action State (4, 5, 1) V = 3.2  State (4, 5, 2) V = 3.2  State (4, 5, 3) V = 0.14  State (4, 5, 4) V = 18.5  State (5, 1, 1) V = -0.62  State (5, 1, 4) V = -0.62  State (5, 1, 4) V = -0.62  State (5, 1, 1) V = -0.62  State (5, 1, 1) V = -0.62  State (5, 1, 1) V = -0.62  State (5, 1, 2) V = -0.62  State (5, 1, 4) V = -0.62	State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action
State (1, 1, 2) V = -0.62  State (1, 1, 3) V = -0.62  State (1, 1, 4) V = -0.62  State (1, 2, 1) V = -0.62  State (1, 2, 2) V = -0.62  State (1, 2, 3) V = -0.62  State (1, 2, 3) V = -0.62  State (1, 2, 3) V = -0.62  State (1, 3, 1) V = -0.62  State (1, 3, 3) V = -0.62  State (1, 3, 4) V = -0.62	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 2) V = -0.62 Best Action: A3	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 4) V = 3.2 State (5, 5, 4) V = 3.0 State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100	State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 4) V = -0.62  State (2, 4, 4) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 4) V = -0.62	Action State $(4, 5, 1) \lor = 3.2$ Best Action: A4 State $(4, 5, 2) \lor = 3.2$ Best Action: A3 State $(4, 5, 4) \lor = 0.62$ Best Action: A3 State $(4, 5, 4) \lor = 0.62$ Best Action: A3 State $(5, 1, 2) \lor = -0.62$ Best Action: A3 State $(5, 1, 3) \lor = -0.62$ Best Action: A3 State $(5, 1, 4) \lor = -0.62$ Best Action: A3 State $(5, 1, 4) \lor = -0.62$ Best Action: A3 Best Action: A3	State (2, 2, 2) V = -100000 Best Action: No Action  State (2, 2, 3) V = -100000 Best Action: No Action  State (2, 2, 4) V = -100000 Best Action: No Action  State (2, 3, 1) V = -100000 Best Action: No Action
State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 3) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 2, 1) V = -0.62 Best Action: A3 State (1, 2, 3) V = -0.62 Best Action: A3 State (1, 2, 3) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 2) V = -0.62 Best Action: A3 State (1, 3, 3) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 4, 4) V = -0.62 Best Action: A3 State (1, 4, 4) V = -0.62 Best Action: A3 State (1, 4, 4) V = -0.62 Best Action: A3 State (1, 4, 4) V = -0.62 Best Action: A3 State (1, 4, 4) V = -0.62 Best Action: A3 State (1, 4, 4) V = -0.62 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 5, 2) V = 10.0 State (5, 5, 2) V = 10.0 State (5, 5, 3) V = 100 State (5, 5, 4) State (5, 5,	State (2, 4, 1) V = -0.62 State (2, 4, 2) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 3) V = -0.62 State (2, 5, 3) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 1, 3) V = -0.62 State (3, 1, 3) V = -0.62 State (3, 1, 4) V = -0.62	Action State (4, 5, 1) V = 3.2  State (4, 5, 2) V = 3.2  State (4, 5, 3) V = 0.14  State (4, 5, 4) V = 18.5  State (5, 1, 1) V = -0.62  State (5, 1, 2) V = -0.62  State (5, 1, 4) V = -0.62  State (5, 1, 4) V = -0.62  State (5, 2, 2) V =	State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 4) V = -100000 Best Action: No Action State (2, 3, 4) V = -100000 Best Action: No Best Action: No
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 4) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 Best Action: A3 State (5, 4, 3) V = 3.2 Best Action: A3 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (5, 5, 4) V = 100 State (5, 5, 4) V = 100 State (1, 1, 1) V = -0.62 State (1, 1, 1) V = -0.62 State (1, 1, 3) V = -0.62 State (3, 1, 3) V = -0.62 State (1, 1, 3) V = -0.62	State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 4) V = -0.62  State (2, 4, 4) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 4) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 1, 3) V = -0.62  State (3, 1, 4) V = -0.62  State (3, 1, 4) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 2, 1) V = -0.600000  Best Action: No	Action State (4, 5, 1) V = 3.2  State (4, 5, 2) V = 3.2  State (4, 5, 4) V = 1.45  State (4, 5, 4) V = 1.85  State (5, 1, 1) V = -0.62  State (5, 1, 2) V = -0.62  State (5, 1, 4) V = -0.62  State (5, 2, 1) V = -0.62  State (5, 2, 2) V = -0.62  State (5, 2, 3) V = -0.62  State (5, 3, 1) V = -0.62  State (5, 3, 2) V = -0.62  State (5, 3, 2) V = -0.62  State (5, 3, 3) V = -0.62	State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 4) V = -100000 Best Action: No Action State (2, 4, 1) V = -0.62 Best Action: A3
State $(1, 1, 2) \lor -0.62$ Best Action: A3 State $(1, 1, 3) \lor -0.62$ Best Action: A3 State $(1, 2, 1) \lor -0.62$ Best Action: A3 State $(1, 2, 2) \lor -0.62$ Best Action: A3 State $(1, 2, 3) \lor -0.62$ Best Action: A3 State $(1, 2, 3) \lor -0.62$ Best Action: A3 State $(1, 3, 3) \lor -0.62$ Best Action: A3 State $(1, 3, 2) \lor -0.62$ Best Action: A3 State $(1, 3, 2) \lor -0.62$ Best Action: A3 State $(1, 3, 4) \lor -0.62$ Best Action: A3 State $(1, 4, 3) \lor -0.62$ Best Action: A3 State $(1, 4, 3) \lor -0.62$ Best Action: A3 State $(1, 4, 4) \lor -0.62$ Best Action: A3 State $(1, 4, 5) \lor -0.62$ Best Action: A3 State $(1, 4, 6) \lor -0.62$ Best Action: A3 State $(1, 6, 6) \lor -0.62$ Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 4) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 3) V = -0.62 Best Action: A3 State (3, 4, 3) V = -0.62 Best Action: A3 State (3, 4, 3) V = -0.62 Best Action: A3 State (3, 4, 3) V = -0.62 Best Action: A3 State (3, 4, 3) V = -0.62 Best Action: A3 State (3, 4, 3) V = -0.62 Best Action: A3	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 5, 4) V = 3.2 State (5, 5, 1) V = 10.0 State (5, 5, 1) V = 100 Best Action: A3 State (5, 5, 1) V = 100 State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action Best Action: A3 Best Action: A4 Best Action: A4 Best Action: A4 Best Action: A4	State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 3) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 3) V = -0.63  State (3, 1, 3) V = -0.60  State (3, 1, 3) V = -	Action State $(4, 5, 1) \lor = 3.2$ Best Action: A4 State $(4, 5, 2) \lor = 3.2$ Best Action: A3 State $(4, 5, 4) \lor = 0.62$ Best Action: A3 State $(5, 1, 1) \lor = -0.62$ Best Action: A3 Best Action: A3 State $(5, 1, 3) \lor = -0.62$ State $(5, 1, 3) \lor = -0.62$ Best Action: A3 Best Action: A3 State $(5, 2, 1) \lor = -0.62$ Best Action: A3 Best Action: A3 State $(5, 2, 1) \lor = -0.62$ State $(5, 2, 2) \lor = -0.62$ Best Action: A3 Best Action: A3 State $(5, 2, 3) \lor = -0.62$ Best Action: A3 Best Action: A3 State $(5, 2, 3) \lor = -0.62$ Best Action: A3	State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 4, 1) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 4) V = -0.62 Best Action: A3 State (3, 3, 4) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 5, 1) V = 3.1 Best Action: A3 State (3, 5, 1) V = 3.1 Best Action: A4 State (3, 5, 3) V = 0.12 Best Action: A4 State (3, 5, 3) V = 0.12 Best Action: A3 State (3, 5, 3) V = 0.12 Best Action: A3	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 Best Action: A3 State (5, 4, 3) V = 3.2 Best Action: A3 State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 0.62 State (1, 1, 1) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 2, 1) V = -0.62 State (1, 2, 2) V = -0.62 State (1, 2, 2) V = -0.62 State (1, 2, 3) State (1, 4) State (	State (2, 4, 1) V = -0.62 State (2, 4, 2) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 3) V = -0.62 State (2, 5, 3) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 2, 2) V = -100000 State (3, 2, 2) V = -100000 Best Action: A3 State (3, 2, 2) V = -100000 Best Action: No State (3, 2, 2) V = -100000 Best Action: No	Action State (4, 5, 1) V = 3.2  State (4, 5, 2) V = 3.2  State (4, 5, 4) V = 1.45  State (4, 5, 4) V = 1.85  State (5, 1, 1) V = -0.62  State (5, 1, 2) V = -0.62  State (5, 1, 4) V = -0.62  State (5, 2, 1) V = -0.62  State (5, 2, 3) V = -0.62  State (5, 2, 3) V = -0.62  State (5, 3, 1) V = -0.62  State (5, 3, 4) V = -0.62  State (5, 4, 1) V = 18.5  Best Action: A3  Be	State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 State (3, 3, 1) V = -0.62 State (3, 3, 4) V = -0.62 State (3, 3, 4) V = -0.62 State (3, 4, 1) V = -0.62 State (3, 4, 4) V = -0.62 State (3, 4, 3) V = -0.62 State (3, 4, 3) V = -0.62 State (3, 4, 3) V = -0.62 State (3, 5, 1) V = 3.1 State (3, 5, 1) V = 3.1 State (3, 5, 3) V = 0.12 State (3, 5, 4) V = 0.62 State (3, 5, 5, 1) V = 3.1 State (3, 5, 3) V = 0.12 State (3, 5, 4) V = 0.62 State (3, 5, 5, 1) V = 3.1 State (3, 5, 3) V = 0.12 State (3, 5, 4) V = 1.80 Best Action: A3 State (3, 5, 4) V = 0.62 Best Action: A3 State (3, 5, 4) V = 0.62 State (4, 1, 1) V = -0.62 Best Action: A3 State (3, 5, 4) V = 1.80 Best Action: A3 State (3, 5, 4) V = 1.80 Best Action: A3 State (3, 5, 4) V = 1.80 Best Action: A3 State (3, 5, 4) V = 1.80 Best Action: A3 State (3, 5, 4) V = 1.80 Best Action: A3 State (3, 5, 4) V = 1.80 Best Action: A3 State (3, 5, 4) V = 1.80 Best Action: A3 State (3, 5, 4) V = 0.62 Best Action: A3 St	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 5, 4) V = 3.2 State (5, 5, 4) V = 3.2 State (5, 5, 4) V = 100 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 4) V = 100 State (5, 5, 4) V = 100 State (5, 5, 4) V = 100 State (1, 1, 1) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 2, 1) V = -0.62 State (1, 2, 1) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 2, 4) V = -0.62	State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 4) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 1, 4) V = -0.62  State (3, 1, 4) V = -0.62  State (3, 2, 2) V = -100000  State (3, 2, 3) V = -100000  State (3, 2, 4) V = -100000	Action State $(4, 5, 3) \lor = 3.2$ Best Action: A4 State $(4, 5, 3) \lor = 0.14$ Best Action: A3 State $(4, 5, 4) \lor = 1.05$ Best Action: A3 Best A	State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 4) V = -100000 Best Action: No Action State (2, 4, 1) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3
State $(1, 1, 2) \lor = -0.62$ Best Action: A3 State $(1, 1, 3) \lor = -0.62$ Best Action: A3 State $(1, 2, 1) \lor = -0.62$ Best Action: A3 State $(1, 2, 2) \lor = -0.62$ Best Action: A3 State $(1, 2, 3) \lor = -0.62$ Best Action: A3 State $(1, 2, 3) \lor = -0.62$ Best Action: A3 State $(1, 3, 3) \lor = -0.62$ Best Action: A3 State $(1, 3, 3) \lor = -0.62$ Best Action: A3 State $(1, 3, 3) \lor = -0.62$ Best Action: A3 State $(1, 3, 3) \lor = -0.62$ Best Action: A3 State $(1, 4, 3) \lor = -0.62$ Best Action: A3 State $(1, 4, 2) \lor = -0.62$ Best Action: A3 State $(1, 4, 2) \lor = -0.62$ Best Action: A3 State $(1, 4, 2) \lor = -0.62$ Best Action: A3 State $(1, 5, 1) \lor = -0.62$ Best Action: A3 State $(1, 5, 2) \lor = -0.62$ Best Action: A3 State $(1, 5, 2) \lor = -0.62$ Best Action: A3 State $(1, 5, 4) \lor = -0.62$ Best Action: A3 State $(1, 5, 4) \lor = -0.62$ Best Action: A3 State $(1, 5, 4) \lor = -0.62$ Best Action: A3 State $(1, 5, 4) \lor = -0.62$ Best Action: A3 State $(1, 5, 4) \lor = -0.62$ Best Action: A3 State $(1, 5, 4) \lor = -0.62$ Best Action: A3 State $(1, 5, 4) \lor = -0.62$ Best Action: A3 State $(1, 5, 4) \lor = -0.62$ Best Action: A3 State $(1, 5, 4) \lor = -0.62$ Best Action: A3 State $(1, 5, 4) \lor = -0.62$ Best Action: A3 State $(1, 5, 4) \lor = -0.62$ Best Action: A3 State $(1, 5, 4) \lor = -0.62$ Best Action: A3 State $(1, 5, 4) \lor = -0.62$ Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 5, 1) V = 3.1 Best Action: A3 State (3, 5, 4) V = 3.1 Best Action: A3 State (3, 5, 4) V = 3.1 Best Action: A3 State (3, 5, 4) V = 3.1 Best Action: A3 State (4, 1, 1) V = -0.62 Best Action: A3 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3 Best Act	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 5, 4) V = 3.2 State (5, 5, 1) V = 10.0 State (5, 5, 1) V = 100 Best Action: A3 Best Action: A3 Best Action: A3 Best Action: A3 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 4) V = 10.62 State (1, 1, 1) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 4) V = -0.62 State (1, 2, 2) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 1) V = -0.62 State (1, 4, 3) V = -0.6	State (2, 4, 1) V = -0.62 State (2, 4, 2) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 3) V = -0.62 State (2, 5, 3) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 1, 4) V = -0.62 State (3, 2, 2) V = -100000 State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 State (3, 3, 1) V = -0.62 Sest Action: No Action State (3, 2, 3) V = -100000 State (3, 3, 1) V = -0.62 Sest Action: No Action State (3, 2, 3) V = -100000 State (3, 3, 1) V = -0.62 Sest Action: No Action State (3, 2, 3) V = -100000 State (3, 3, 1) V = -0.62 Sest Action: No Action State (3, 2, 3) V = -100000 State (3, 3, 1) V = -0.62 Sest Action: No Action State (3, 3, 1) V = -0.62 Sest Action: No Action State (3, 3, 1) V = -0.62 Sest Action: No	Action State $(4, 5, 1) \lor = 3.2$ Best Action: A4 State $(4, 5, 2) \lor = 3.2$ Best Action: A3 State $(4, 5, 4) \lor = 0.62$ Best Action: A3 Best Action: A3 State $(5, 1, 1) \lor = -0.62$ State $(5, 1, 3) \lor = -0.62$ State $(5, 1, 3) \lor = -0.62$ State $(5, 1, 4) \lor = -0.62$ State $(5, 2, 1) \lor = -0.62$ Best Action: A3 Best Action: A4 Best Action	State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 4) V = -100000 Best Action: No Action State (2, 4, 1) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3 State (2, 5, 3) V = -0.62 Best Action: A3 State (2, 5, 3) V = -0.62 Best Action: A3 State (2, 5, 3) V = -0.62 Best Action: A3 State (2, 5, 3) V = -0.62 Best Action: A3 State (2, 5, 3) V = -0.62 Best Action: A3 State (2, 5, 3) V = -0.62 Best Action: A3 State (2, 5, 3) V = -0.62 Best Action: A3 State (2, 5, 3) V = -0.62 Best Action: A3
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 2) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 4) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 3) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 5, 3) V = 0.52 Best Action: A3 State (3, 5, 3) V = 0.52 Best Action: A3 State (3, 5, 3) V = 0.52 Best Action: A3 State (3, 5, 4) V = 3.1 Best Action: A3 State (3, 5, 4) V = 3.0 Best Action: A3 State (3, 5, 4) V = 0.62 Best Action: A3 State (3, 5, 4) V = 0.62 Best Action: A3 State (4, 1, 1) V = -0.62 Best Action: A3 State (5, 2) V = 3.1 Best Action: A3 State (6, 2, 2) V = 3.1 Best Action: A3 State (6, 2, 2) V = 3.1 Best Action: A3 State (6, 2, 2) V = 3.1 Best Action: A3 State (6, 2, 2) V = 3.1 Best Action: A3 State (6, 2, 2)	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 5, 2) V = 10.0 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 0.62 State (1, 1, 1) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 4) V = -0.62	State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 4) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 2, 2) V = -100000  State (3, 2, 2) V = -100000  State (3, 2, 3) V = -100000  State (3, 2, 3) V = -100000  State (3, 2, 4) V = -100000  Best Action: No Action  State (3, 2, 4) V = -100000  Best Action: No Action  State (3, 2, 4) V = -100000  Best Action: No Action	Action State $(4, 5, 1) \lor = 3.2$ Best Action: A4 State $(4, 5, 2) \lor = 3.2$ Best Action: A3 State $(4, 5, 4) \lor = 1.6$ Best Action: A3 Best Action: A3 State $(5, 1, 1) \lor = -0.62$ State $(5, 1, 2) \lor = -0.62$ Best Action: A3 Best Action: A3 Best Action: A3 State $(5, 1, 4) \lor = -0.62$ State $(5, 2, 1) \lor = -0.62$ State $(5, 2, 1) \lor = -0.62$ State $(5, 2, 2) \lor = -0.62$ Best Action: A3 Best Action: A4 Bate $(5, 4, 2) \lor = 0.62$ Best Action: A3 Best Action: A3 Best Action: A3 Best Action: A3 Best Action: A4 Bate $(5, 4, 2) \lor = 0.62$ Best Action: A3 Best Action: A4 Bate $(5, 4, 2) \lor = 0.62$ Best Action: A4 Bate $(5, 4, 2) \lor = 0.62$ Best Action: A3 Best Action: A4 Bate $(5, 4, 2) \lor = 0.62$ Best Action: A3 Best Action: A4 Bate $(5, 4, 2) \lor = 0.62$ Best Action: A4 Bate $(5, 4,$	State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 4) V = -100000 Best Action: No Action State (2, 4, 1) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 4, 4) V = -0.62 Best Action: A3 State (2, 5, 2) V = -0.62 Best Action: A3 State (2, 5, 2) V = -0.62 Best Action: A3 State (2, 5, 2) V = -0.62 Best Action: A3 State (2, 5, 2) V = -0.62 Best Action: A3 State (2, 5, 2) V = -0.62 Best Action: A3 State (2, 5, 2) V = -0.62 Best Action: A3 State (2, 5, 2) V = -0.62 Best Action: A3 State (2, 5, 2) V = -0.62 Best Action: A3 State (2, 5, 2) V = -0.62 Best Action: A3 State (2, 5, 2) V = -0.62 Best Action: A3 State (2, 5, 2) V = -0.62 Best Action: A3
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 4) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 5, 1) V = 3.1 Best Action: A3 State (3, 5, 4) V = 1.05 Best Action: A3 State (4, 1, 1) V = -0.62 Best Action: A3 State (4, 1, 4) V = -0.62 Best Action: A3 State (4, 1, 4) V = -0.62 Best Action: A3 Best Action: A3 State (4, 1, 4) V = -0.62 Best Action: A3 Best Action: A3 Best Action: A3 State (4, 1, 4) V = -0.62 Best Action: A3 Best Acti	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 5, 1) V = 100 State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 Best Action: A3 Best Action: A3 Best Action: A3 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action Best Action: No Action State (1, 1, 1) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 4) V = -0.62 State (1, 2, 2) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 2) V = -0.62 State (1, 3, 3) V = -0.62 State (1, 3, 4) V = -0.62 State (1, 4, 1) V = -0.62 State (1, 3, 4) V = -0.62 State (1, 3, 4) V = -0.62 State (1, 4, 1) V = -0.62 State (1, 5, 4) V = -0.62 State (1, 6, 4) V = -0.62 State (1, 6, 4) V = -0.62 State (1, 6, 4) V = -0.62 State (1, 7, 4) V = -0.62 Stat	State (2, 4, 1) V = -0.62 State (2, 4, 2) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 4, 4) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 3) V = -0.62 State (2, 5, 4) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 1, 4) V = -0.62 State (3, 2, 2) V = -100000 State (3, 2, 2) V = -100000 State (3, 2, 3) V = -100000 State (3, 3, 3) V = -0.62 State (3, 3, 4) V = -0.62	Action State $(4, 5, 1) \lor = 3.2$ Best Action: A4 State $(4, 5, 3) \lor = 0.14$ Best Action: A3 State $(4, 5, 4) \lor = 0.62$ State $(5, 1, 1) \lor = 0.62$ State $(5, 1, 3) \lor = 0.62$ State $(5, 1, 3) \lor = 0.62$ State $(5, 2, 1) \lor = 0.62$ State $(5, 3, 1) \lor = 0.62$ State $(5, 4, 2) \lor = 0.14$ Best Action: A3 Best Action: A3 State $(5, 4, 2) \lor = 0.14$ Best Action: A3 State $(5, 4, 2) \lor = 0.14$ Best Action: A3 Best Action: A3 State $(5, 4, 2) \lor = 0.14$ Best Action: A4 State $(5, 4, 2) \lor = 0.14$ Best Action: A4 Best Action: A9 State $(5, 5, 1) \lor = 100$ Best Action: No Action State $(5, 5, 1) \lor = 100$ Best Action: No Action State $(5, 5, 1) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Action: No Action State $(5, 5, 4) \lor = 100$ Best Acti	State (2, 2, 2) V = -100000 Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 4) V = -100000 Best Action: No Action State (2, 4, 2) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3 State (2, 5, 4) V = -0.62 Best Action: A3 State (2, 5, 4) V = -0.62 Best Action: A3
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 5, 1) V = 3.1 Best Action: A3 State (3, 5, 3) V = -1.02 Best Action: A3 State (3, 5, 3) V = -1.02 Best Action: A3 State (3, 5, 3) V = -1.02 Best Action: A3 State (3, 5, 3) V = -1.02 Best Action: A3 State (3, 5, 3) V = -1.02 Best Action: A3 State (4, 1, 1) V = -0.62 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 1, 2) V = -0.62 State (4, 2, 1) V = -0.62 State (4, 2, 1) V = -0.62 State (4, 2, 2) V = -0.62 Best Action: A3 Best	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 5, 2) V = 10.0 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 3) V = 100 State (1, 5, 5, 4) V = 100 State (1, 1, 1) V = -0.62 State (1, 1, 1) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 2, 2) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 1) V = -0.62 State (1, 3, 3) V = -0.62 State (1, 4, 1) V = -0.62 State (1, 4, 2) V = -0.62 State (1, 4, 3) V = -0.62 State (1, 4	State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 4) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 2, 1) V = -0.62  State (3, 3, 1) V = -0.62  State (3, 3, 1) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 4) V = -0.62  State (3, 4, 1) V = -	Action State (4, 5, 1) V = 3.2 State (4, 5, 2) V = 3.2 State (4, 5, 3) V = 0.14 State (4, 5, 4) V = 18.5 State (5, 1, 1) V = -0.62 State (5, 1, 2) V = -0.62 State (5, 1, 4) V = -0.62 State (5, 2, 1) V = -0.62 State (5, 2, 3) V = -0.62 State (5, 2, 3) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 1) V = 18.5 State (5, 4, 1) V = 18.5 State (5, 5, 3) V = 0.62 State (5, 4, 1) V = 18.5 State (5, 5, 3) V = 0.62 State (5, 5, 4) V = 3.2 State (5, 5, 3) V = 0.062 State (5, 5, 4) V = 100 State (5, 5, 3) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 100 State (1, 1, 1) V = -0.62 Best Action: No Action State (5, 5, 4) V = 100 State (5, 5, 4) V = 100 State (1, 1, 1) V = -0.62 Best Action: No Action State (5, 5, 4) V = 100 State (1, 1, 1) V = -0.62 State (1, 1, 1)	State (2, 2, 2) V = -100000  Action  State (2, 2, 3) V = -100000  Best Action: No  Action  State (2, 2, 4) V = -100000  Best Action: No  Action  State (2, 3, 1) V = -100000  Best Action: No  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 3, 4) V = -100000  Best Action: No  Action  State (2, 4, 1) V = -0.62  Best Action: A3  State (2, 4, 3) V = -0.62  Best Action: A3  State (2, 4, 4) V = -0.62  Best Action: A3  State (2, 5, 2) V = -0.62  Best Action: A3  State (2, 5, 2) V = -0.62  Best Action: A3  State (2, 5, 2) V = -0.62  Best Action: A3  State (2, 5, 2) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 5, 1) V = 3.1 Best Action: A3 State (3, 5, 1) V = 3.1 Best Action: A3 State (3, 5, 1) V = 3.1 Best Action: A3 State (4, 1, 1) V = -0.62 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 2, 1) V = -0.62 Best Action: A3 State (4, 2, 1) V = -0.62 Best Action: A3 State (4, 2, 1) V = -0.62 Best Action: A3 Be	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 5, 4) V = 100 State (5, 5, 2) V = 100 State (5, 5, 4) V = 100 State (5, 5, 4) V = 100 Best Action: A3 Best Action: A3 Best Action: A3 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action Best Action: A3 Best Act	State (2, 4, 1) V = -0.62 State (2, 4, 2) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 3) V = -0.62 State (2, 5, 3) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 4) V = -0.62 State (3, 2, 3) V = -0.62 State (3, 2, 2) V = -100000 State (3, 2, 3) V = -100000 State (3, 3, 3) V = -0.62 State (3, 3, 4) V = -0.62 State (3, 4, 1) V = -0.62 State (3, 4, 2) V = -0.62 State (3, 4, 3) V = -0.62	Action State (4, 5, 1) V = 3.2 State (4, 5, 2) V = 3.2 State (4, 5, 4) V = 10.4 State (5, 1, 1) V = 0.62 State (5, 1, 3) V = 0.62 State (5, 1, 4) V = 0.62 State (5, 2, 2) V = 0.62 State (5, 2, 2) V = 0.62 State (5, 2, 2) V = 0.62 State (5, 2, 3) V = 0.62 State (5, 3, 1) V = 0.62 State (5, 3, 1) V = 0.62 State (5, 3, 1) V = 0.62 State (5, 3, 4) V = 0.62 State (5, 3, 4) V = 0.62 State (5, 4, 2) V = 0.62 State (5, 4, 3) V = 0.62 State (5, 5, 4) V = 0.62 State (5, 5, 3) V = 0.62 State (5, 5, 4)	State (2, 2, 2) V = -100000 Best Action: No Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 2, 4) V = -100000 Best Action: No Action State (2, 3, 1) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 3, 3) V = -100000 Best Action: No Action State (2, 4, 1) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3 State (2, 5, 3) V = -0.62 Best Action: A3 State (2, 5, 3) V = -0.62 Best Action: A3 State (3, 1, 1) V = -0.62 Best Action: A3 State (3, 1, 1) V = -0.62 Best Action: A3 State (3, 1, 2) V = -0.62 Best Action: A3 State (3, 1, 2) V = -0.62 Best Action: A3 State (3, 1, 2) V = -0.62 Best Action: A3 State (3, 1, 2) V = -0.62 Best Action: A3 State (3, 1, 3) V = -0.62 Best Action: A3 State (3, 1, 4) V = -0.62 Best Action: A3
State $(1,1,2) \lor -0.62$ Best Action: A3 State $(1,1,3) \lor -0.62$ Best Action: A3 State $(1,2,1) \lor -0.62$ Best Action: A3 State $(1,2,1) \lor -0.62$ Best Action: A3 State $(1,2,2) \lor -0.62$ Best Action: A3 State $(1,2,3) \lor -0.62$ Best Action: A3 State $(1,2,4) \lor -0.62$ Best Action: A3 State $(1,3,3) \lor -0.62$ Best Action: A3 State $(1,4,2) \lor -0.62$ Best Action: A3 State $(1,4,4) \lor -0.62$ Best Action: A3 State $(1,4,2) \lor -0.62$ Best Action: A3 State $(1,4,2) \lor -0.62$ Best Action: A3 State $(1,5,1) \lor -0.62$ Best Action: A3 State $(1,5,2) \lor -0.62$ Best Action: A3 State $(2,1,3) \lor -0.62$ Best Action: A3 State $(2,2,3) \lor -0.62$ Best Action: A3 State	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 4) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 5, 1) V = 3.1 Best Action: A3 State (3, 5, 1) V = 3.1 Best Action: A3 State (3, 5, 3) V = -0.62 Best Action: A3 State (3, 5, 3) V = -0.62 Best Action: A3 State (3, 5, 3) V = -0.62 Best Action: A3 State (4, 1, 1) V = -0.62 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 2, 1) V = -0.62 Best Action: A3 State (4, 2, 1) V = -0.62 Best Action: A3 State (4, 2, 1) V = -0.62 Best Action: A3 State (4, 2, 1) V = -0.62 Best Action: A3 Best Action:	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (1, 1, 1) V = -0.62 State (1, 1, 1) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 3) V = -0.62 State (1, 4, 1) V = -0.62 State (1, 4, 1) V = -0.62 State (1, 4, 2) V = -0.62 State (1, 5, 1)	State (2, 4, 1) V = -0.62 State (2, 4, 2) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 3) V = -0.62 State (2, 5, 3) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 2, 1) V = -0.62 State (3, 2, 3) V = -0.62 State (3, 2, 4) V = -0.62 State (3, 3, 3) V = -0.62 State (3, 3, 3) V = -0.62 State (3, 3, 3) V = -0.62 State (3, 3, 4) V = -0.62 State (3, 3, 4) V = -0.62 State (3, 3, 4) V = -0.62 State (3, 4, 3) V = -0.62 State (3, 4, 4) V = -0.62 State (3, 5, 1) V = -0.62 State (3, 4, 4) V = -0.62 State (3, 5, 1) V = -0.62 State (3, 4, 4) V = -0.62 State (3, 5, 1) V = -0.62 State (3, 5, 1) V = -0.62 State (3, 4, 4) V = -0.62 State (3, 5, 1) V = -0.62 State (3, 5, 1) V = -0.62 State (3, 5, 1) V = -0.62 State (3, 6, 4) V	Action State (4, 5, 1) V = 3.2  State (4, 5, 2) V = 3.2  State (4, 5, 4) V = 1.8.5  State (5, 1, 1) V = -0.62  State (5, 1, 3) V = -0.62  State (5, 1, 4) V = -0.62  State (5, 2, 1) V = -0.62  State (5, 2, 2) V = -0.62  State (5, 2, 2) V = -0.62  State (5, 2, 3) V = -0.62  State (5, 2, 3) V = -0.62  State (5, 2, 3) V = -0.62  State (5, 3, 1) V = -0.62  State (5, 3, 4) V = -0.62  State (5, 3, 3) V = 0.62  State (5, 3, 3) V = 0.62  State (5, 3, 3) V = 0.62  State (5, 4, 2) V = 0.64  State (5, 5, 3) V = 0.62  State (5, 5, 3) V = 0.62  State (5, 5, 3) V = 0.62  State (1, 1, 1) V = 0.62  State (1, 1, 2) V = 0.62  State (1, 1, 3) V = 0.62  State (1, 1, 3) V = 0.62  State (1, 1, 4) V = 0.62  State (1, 4, 4) V = 0.62  State (1, 4, 4) V = 0.6	State (2, 2, 2) V = -100000  Action  State (2, 2, 3) V = -100000  Best Action: No  Action  State (2, 2, 4) V = -100000  Best Action: No  Action  State (2, 3, 1) V = -100000  Best Action: No  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 4, 1) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 4) V = -0.62  Best Action: A3  State (2, 4, 4) V = -0.62  Best Action: A3  State (2, 5, 2) V = -0.62  Best Action: A3  State (2, 5, 2) V = -0.62  Best Action: A3  State (2, 5, 2) V = -0.62  Best Action: A3  State (2, 5, 2) V = -0.62  Best Action: A3  State (3, 1, 3) V = -0.62  Best Action: A3  State (3, 1, 3) V = -0.62  Best Action: A3  State (3, 1, 3) V = -0.62  Best Action: A3  State (3, 1, 3) V = -0.62  Best Action: A3  State (3, 1, 3) V = -0.62  Best Action: A3  State (3, 1, 3) V = -0.62  Best Action: A3  State (3, 1, 3) V = -0.62  Best Action: A3  State (3, 1, 3) V = -0.62  Best Action: A3  State (3, 1, 3) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 2) V = -100000  Best Action: No  Action  Best Action: No  Action
State $(1, 1, 2) \lor -0.62$ Best Action: A3 State $(1, 1, 3) \lor -0.62$ Best Action: A3 State $(1, 2, 1) \lor -0.62$ Best Action: A3 State $(1, 2, 1) \lor -0.62$ Best Action: A3 State $(1, 2, 2) \lor -0.62$ Best Action: A3 State $(1, 2, 2) \lor -0.62$ Best Action: A3 State $(1, 2, 4) \lor -0.62$ Best Action: A3 State $(1, 3, 3) \lor -0.62$ Best Action: A3 State $(1, 3, 3) \lor -0.62$ Best Action: A3 State $(1, 3, 3) \lor -0.62$ Best Action: A3 State $(1, 3, 4) \lor -0.62$ Best Action: A3 State $(1, 4, 4) \lor -0.62$ Best Action: A3 State $(1, 4, 4) \lor -0.62$ Best Action: A3 State $(1, 4, 2) \lor -0.62$ Best Action: A3 State $(1, 4, 2) \lor -0.62$ Best Action: A3 State $(1, 4, 2) \lor -0.62$ Best Action: A3 State $(1, 5, 3) \lor -0.62$ Best Action: A3 State $(1, 5, 3) \lor -0.62$ Best Action: A3 State $(1, 5, 3) \lor -0.62$ Best Action: A3 State $(1, 5, 3) \lor -0.62$ Best Action: A3 State $(1, 5, 3) \lor -0.62$ Best Action: A3 State $(1, 5, 4) \lor -0.62$ Best Action: A3 State $(2, 1, 2) \lor -0.62$ Best Action: A3 State $(2, 1, 2) \lor -0.62$ Best Action: A3 State $(2, 1, 2) \lor -0.62$ Best Action: A3 State $(2, 1, 2) \lor -0.62$ Best Action: A3 State $(2, 1, 2) \lor -0.62$ Best Action: A3 State $(2, 2, 2) \lor -1.00000$ Best Action: No Action State $(2, 2, 3) \lor -1.00000$ Best Action: No Action State $(2, 2, 4) \lor -1.00000$ Best Action: No Action State $(2, 2, 4) \lor -1.00000$ Best Action: No Action State $(2, 2, 4) \lor -1.00000$ Best Action: No Action State $(2, 2, 4) \lor -1.00000$ Best Action: No Action State $(2, 2, 4) \lor -1.00000$ Best Action: No Action State $(2, 2, 4) \lor -1.000000$ Best Action: No Action State $(2, 2, 4) \lor -1.000000$ Best Action: No Action State $(2, 2, 4) \lor -1.000000$ Best Action: No Action State $(2, 2, 4) \lor -1.000000$ Best Action: No Action State $(2, 2, 4) \lor -1.000000$ Best Action: No Action State $(2, 2, 4) \lor -1.000000$ Best Action: No Action State $(2, 2, 4) \lor -1.000000$ Best Action: No Action State $(2, 2, 4) \lor -1.000000$ Best Action: No Action State $(2, 2, 4) \lor -1.000000$ Best Action: No Action State $(2, 2, 4) \lor -1.000000$ Best Action: No Action State $(2, 2, 4) $	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 1) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 5, 3) V = 0.62 Best Action: A3 State (3, 5, 3) V = 0.62 Best Action: A3 State (3, 5, 3) V = 0.62 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 2, 3) V = -0.62 Best Action: A3 State (4, 2, 3) V = -0.62 Best Action: A3 State (4, 2, 3) V = -0.62 Best Action: A3 State (4, 2, 3) V = -0.62 Best Action: A3 State (4, 3, 3) V = -0.62 Best Action: A3 State (4, 3, 3) V = -0.62 Best Action: A3 State (4, 3, 3) V = -0.62 Best Action: A3 State (4, 3, 3) V = -0.62 Best Action: A3 State (4, 3, 3) V = -0.62 Best Action: A3 State (4, 3, 3) V = -0.62 Best Action: A3 State (4, 3, 3) V = -0.62 Best Action: A3 Best	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 5, 4) V = 3.2 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 100 State (5, 5, 4) V = 100 State (5, 5, 4) V = 0.02 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 2, 4) V = -0.62 State (1, 3, 3) V = -0.62 State (1, 4, 4) V = -0.62 State (1, 5, 5) V = -0.62 State (1, 5,	State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 3) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 1, 3) V = -0.62  State (3, 1, 3) V = -0.62  State (3, 1, 3) V = -0.62  State (3, 2, 1) V = -0.000  Best Action: A3  State (3, 2, 1) V = -0.000  Best Action: A3  State (3, 2, 1) V = -0.000  Best Action: No  Action  State (3, 2, 2) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -0.62  Best Action: A3  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: A3  Best Action: A3  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: A3  Best Action:	Action State (4, 5, 2) V = 3.2 State (4, 5, 2) V = 3.2 State (4, 5, 4) V = 1.8.5 State (5, 1, 1) V = -0.62 State (5, 1, 2) V = -0.62 State (5, 1, 4) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 2) V = -0.62 State (5, 4, 2) V = -0.62 State (5, 5, 4) V = 0.02 State (5, 5, 4) V = 0.02 State (5, 5, 4) V = 0.02 State (5, 4, 2) V = 0.62 State (5, 5, 2) V = 0.062 State (1, 1, 1) V = 0.62 State (1, 1, 1) V = -0.62 State (1, 1, 1) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 2, 1) V = -0.62 State (1, 2, 2) V = -0.62 State (1, 3, 3) V = 30	State (2, 2, 2) V = -100000  Action  State (2, 2, 3) V = -100000  Best Action: No  Action  State (2, 2, 4) V = -100000  Best Action: No  Action  State (2, 3, 1) V = -100000  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 3, 4) V = -100000  Best Action: No  Action  State (2, 4, 1) V = -0.62  Best Action: A3  State (2, 4, 3) V = -0.62  Best Action: A3  State (2, 4, 3) V = -0.62  Best Action: A3  State (2, 4, 3) V = -0.62  Best Action: A3  State (2, 5, 2) V = -0.62  Best Action: A3  State (2, 5, 2) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 2) V = -100000  Best Action: A3  State (3, 2, 2) V = -100000  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 2, 2) V = -100000  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4) V = -0.62  Best Action: A3  State (3, 1, 4
State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 2, 1) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 4) V = -0.62 Best Action: A3 State (1, 2, 4) V = -0.62 Best Action: A3 State (1, 3, 3) V = -0.62 Best Action: A3 State (1, 3, 3) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 4, 2) V = -0.62 Best Action: A3 State (1, 4, 2) V = -0.62 Best Action: A3 State (1, 4, 3) V = -0.62 Best Action: A3 State (1, 4, 3) V = -0.62 Best Action: A3 State (1, 5, 3) V = -0.62 Best Action: A3 State (1, 5, 4) V = -0.62 Best Action: A3 State (1, 5, 4) V = -0.62 Best Action: A3 State (2, 1, 1) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 4) V = -0.62 Best Action: A3 State (2, 1, 4) V = -0.62 Best Action: A3 State (2, 2, 1) V = -0.62 Best Action: A3 State (2, 2, 1) V = -0.62 Best Action: A3 State (2, 2, 1) V = -0.62 Best Action: A3 State (2, 2, 1) V = -0.62 Best Action: A3 State (2, 2, 1) V = -0.60 Best Action: A3 State (2, 2, 4) V = -100000 Best Action: N0 Action State (2, 2, 4) V = -100000 Best Action: N0 Action State (2, 3, 1) V = -100000 Best Action: N0 Action State (2, 3, 1) V = -100000 Best Action: N0 Action	State (3, 2, 1) V = -100000  Action  State (3, 2, 2) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 1) V = -100000  Best Action: No  Action  State (3, 3, 1) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 4) V = -0.62  State (3, 4, 2) V = -0.62  State (3, 4, 2) V = -0.62  State (3, 4, 2) V = -0.62  State (3, 4, 3) V = -0.62  State (3, 4, 3) V = -0.62  State (3, 5, 1) V = 3.1  State (3, 5, 1) V = 3.1  State (3, 5, 3) V = 0.12  State (4, 1, 1) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 3, 1) V = -0.62  State (4, 4, 4) V = -0.62  State (4, 5, 4) V = -0.62  State (4, 6, 6) West Action: A3  State (5, 6) West Action: A3  State (6, 7) West Action: A3  State (7) West Action: A3  State (8, 8) West Action: A3  State (8, 8) West Action: A3	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 1) V = 3.2 State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 Best Action: A3 Best Action: A3 Best Action: A3 Best Action: A3 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (1, 1, 1) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 4) V = -0.62 State (1, 2, 4) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 2) V = -0.62 State (1, 3, 2) V = -0.62 State (1, 3, 3) V = -0.62 State (1, 3, 4) V = -0.62 State (1, 3, 4) V = -0.62 State (1, 4, 3) V = -0.62 State (1, 4, 4) V = -0.62 State (1, 4, 5) V = -0.62 State (1, 5, 3) V = -0.62 State (1, 5, 3) V = -0.62 State (1, 4, 3) V = -0.62 State (1, 4, 3) V = -0.62 State (1, 4, 3) V = -0.62 State (1, 5, 3)	State (2, 4, 1) V = -0.62 State (2, 4, 2) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 3) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 2, 1) V = -0.62 State (3, 2, 2) V = -100000 State (3, 2, 3) V = -0.62 State (3, 3, 4) V = -0.62 State (3, 3, 4) V = -0.62 State (3, 4, 1) V = -0.62 State (3, 4, 1) V = -0.62 State (3, 4, 1) V = -0.62 State (3, 4, 2) V = -0.62 State (3, 4, 2) V = -0.62 State (3, 4, 3) V = -0.62 State (3, 5, 2) V = 3.1 State (3, 5, 3) V = 3.1 State (3, 5, 3) V = 3.1 State (3, 5, 3) V = 0.18 State (3, 5, 4) V = 18.0 State	Action State (4, 5, 1) V = 3.2 State (4, 5, 2) V = 3.2 State (4, 5, 4) V = 18.5 State (5, 1, 1) V = -0.62 State (5, 1, 3) V = -0.62 State (5, 1, 4) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 2, 3) V = -0.62 State (5, 3, 1) V = -0.62 State (5, 3, 1) V = -0.62 State (5, 3, 3) V = -0.62 State (5, 4, 2) V = 0.62 State (5, 4, 2) V = 0.64 State (5, 5, 4) V = 0.64 State (5, 5, 4) V = 0.64 State (5, 5, 4) V = 0.06 State (1, 1, 1) V = -0.62 State (1, 2, 2) V = -0.62 State (1, 2, 2) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 3) State (3, 3	State (2, 2, 2) V = -100000  Action  State (2, 2, 3) V = -100000  Action  State (2, 2, 4) V = -100000  Best Action: No  Action  State (2, 3, 1) V = -100000  Best Action: No  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 3, 4) V = -100000  Best Action: No  Action  State (2, 4, 2) V = -0.62  Best Action: A3  State (2, 4, 3) V = -0.62  Best Action: A3  State (2, 4, 3) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -100000  Best Action: No  Action  State (3, 2, 2) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No
State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 2, 1) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 3) V = -0.62 Best Action: A3 State (1, 2, 4) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 3) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 4, 2) V = -0.62 Best Action: A3 State (1, 4, 3) V = -0.62 Best Action: A3 State (1, 4, 3) V = -0.62 Best Action: A3 State (1, 4, 3) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 2) V = -0.62 Best Action: A3 State (1, 5, 2) V = -0.62 Best Action: A3 State (1, 5, 2) V = -0.62 Best Action: A3 State (1, 5, 2) V = -0.62 Best Action: A3 State (2, 1, 1) V = -0.62 Best Action: A3 State (2, 1, 1) V = -0.62 Best Action: A3 State (2, 1, 1) V = -0.62 Best Action: A3 State (2, 1, 1) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 2, 1) V = -0.62 Best Action: A3 State (2, 2, 2) V = -0.62 Best Action: A3 State (2, 2, 3) V = -0.60 Best Action: A3 State (2, 3, 3) V = -0.60 Best Action: A3 State (2, 3, 1) V = -100000 Action State (2, 2, 3) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action State (2, 3, 2) V = -100000 Best Action: No Action	State (3, 2, 1) V = -100000  Action  State (3, 2, 2) V = -100000  Best Action: No Action  State (3, 2, 3) V = -100000  Best Action: No Action  State (3, 3, 1) V = -0.62  State (3, 3, 1) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 4) V = -0.62  State (3, 4, 1) V = -0.62  State (3, 4, 2) V = -0.62  State (3, 4, 2) V = -0.62  State (3, 4, 3) V = -0.62  State (3, 5, 1) V = 3.1  State (3, 5, 3) V = 0.62  State (3, 5, 3) V = 0.62  State (3, 5, 1) V = 3.1  State (3, 5, 3) V = 0.62  State (4, 1, 1) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 3, 2) V = -0.62  State (4, 3, 2) V = -0.62  State (4, 3, 2) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 4, 4) V =	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 5, 4) V = 3.2 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 100 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 3) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 3) V = -0.62 State (1, 4, 2) V = -0.62 State (1, 4, 4) V = -0.62 State (1, 5, 1) V = -0.62 State (1, 5, 4) V = -0.62 State (2, 1, 1) V = -0.62 State (3, 1) State (4, 1) Sta	State (2, 4, 1) V = -0.62 State (2, 4, 2) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 5, 2) V = -0.62 State (3, 5, 3) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 2, 2) V = -100000 State (3, 2, 2) V = -100000 State (3, 2, 3) V = -0.62 State (3, 2, 3) V = -0.62 State (3, 3, 3) V = -0.62 State (3, 3, 3) V = -0.62 State (3, 3, 3) V = -0.62 State (3, 2, 3) V = -100000 State (3, 2, 3) V = -100000 State (3, 2, 3) V = -0.0000 State (3, 3, 3) V = -0.62 State (3, 3, 3) V = -0.62 State (3, 3, 3) V = -0.62 State (3, 3, 4) V = -0.62 State (3, 3, 4) V = -0.62 State (3, 3, 4) V = -0.62 State (3, 4, 4) V = -0.62 State (3, 4, 3) V = -0.62 State (3, 4, 4) V = -0.62 State (3, 4, 4) V = -0.62 State (3, 5, 3) V = -0.62 State (4, 1, 1) V = -0.62 State (4, 1, 2) V = -0.62 State (4	Action State (4, 5, 1) V = 3.2 State (4, 5, 2) V = 3.2 State (4, 5, 4) V = 1.8.5 State (5, 1, 1) V = -0.62 State (5, 1, 2) V = -0.62 State (5, 1, 4) V = -0.62 State (5, 2, 1) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 2, 3) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.64 State (5, 5, 4) V = 0.06 State (5, 5, 4) V = 0.06 State (5, 4, 1) V = 18.5 State (5, 4, 1) V = 10.6 State (5, 5, 2) V = 0.062 State (5, 4, 1) V = 10.6 State (5, 5, 2) V = 0.062 State (5, 4, 1) V = 0.062 State (5, 5, 2) V = 0.062 State (1, 1, 1) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 2, 1) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 3) V = -0	State (2, 2, 2) V = -100000  Action  State (2, 2, 3) V = -100000  Best Action: No  Action  State (2, 2, 4) V = -100000  Best Action: No  Action  State (2, 3, 1) V = -100000  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 3, 4) V = -100000  Best Action: No  Action  State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 5, 2) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 2, 2) V = -100000  Best Action: A3  State (3, 2, 3) V = -0.62  State (3, 1, 4) V = -0.62  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000
State $(1, 1, 2) \lor -0.62$ Best Action: A3 State $(1, 1, 3) \lor -0.62$ Best Action: A3 State $(1, 1, 4) \lor -0.62$ Best Action: A3 State $(1, 2, 1) \lor -0.62$ Best Action: A3 State $(1, 2, 2) \lor -0.62$ Best Action: A3 State $(1, 2, 3) \lor -0.62$ Best Action: A3 State $(1, 2, 4) \lor -0.62$ Best Action: A3 State $(1, 3, 3) \lor -0.62$ Best Action: A3 State $(1, 3, 3) \lor -0.62$ Best Action: A3 State $(1, 3, 3) \lor -0.62$ Best Action: A3 State $(1, 3, 3) \lor -0.62$ Best Action: A3 State $(1, 3, 4) \lor -0.62$ Best Action: A3 State $(1, 4, 4) \lor -0.62$ Best Action: A3 State $(1, 4, 2) \lor -0.62$ Best Action: A3 State $(1, 4, 2) \lor -0.62$ Best Action: A3 State $(1, 4, 3) \lor -0.62$ Best Action: A3 State $(1, 5, 3) \lor -0.62$ Best Action: A3 State $(1, 5, 3) \lor -0.62$ Best Action: A3 State $(1, 5, 3) \lor -0.62$ Best Action: A3 State $(1, 5, 3) \lor -0.62$ Best Action: A3 State $(1, 5, 3) \lor -0.62$ Best Action: A3 State $(1, 5, 4) \lor -0.62$ Best Action: A3 State $(2, 1, 2) \lor -0.62$ Best Action: A3 State $(2, 1, 2) \lor -0.62$ Best Action: A3 State $(2, 1, 2) \lor -0.62$ Best Action: A3 State $(2, 1, 2) \lor -0.62$ Best Action: A3 State $(2, 1, 2) \lor -0.62$ Best Action: A3 State $(2, 1, 2) \lor -0.62$ Best Action: A3 State $(2, 1, 2) \lor -0.62$ Best Action: A3 State $(2, 2, 3) \lor -1.00000$ Best Action: No Action State $(2, 2, 3) \lor -1.00000$ Best Action: No Action State $(2, 2, 3) \lor -1.00000$ Best Action: No Action State $(2, 3, 3) \lor -1.00000$ Best Action: No Action State $(2, 3, 3) \lor -1.00000$ Best Action: No Action State $(2, 3, 3) \lor -1.00000$ Best Action: No Action State $(2, 3, 3) \lor -1.00000$ Best Action: No Action State $(2, 3, 3) \lor -1.00000$ Best Action: No	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 4) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 4) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 5, 4) V = -0.62 Best Action: A3 State (3, 5, 4) V = -0.62 Best Action: A3 State (3, 5, 4) V = -0.62 Best Action: A3 State (3, 5, 4) V = -0.62 Best Action: A3 State (3, 5, 4) V = -0.62 Best Action: A3 State (4, 1, 1) V = -0.62 Best Action: A3 State (4, 1, 1) V = -0.62 Best Action: A3 State (4, 1, 1) V = -0.62 Best Action: A3 State (4, 1, 4) V = -0.62 Best Action: A3 State (4, 2, 2) V = -0.62 Best Action: A3 State (4, 2, 3) V = -0.62 Best Action: A3 State (4, 2, 3) V = -0.62 Best Action: A3 Best Action: A	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 1.85 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 100 State (5, 5, 4) V = 0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 2, 1) V = -0.62 State (1, 2, 1) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 1) V = -0.62 State (1, 3, 4) V = -0.62 State (1, 4, 4) V = -0.62 State (1, 5, 1) V = -0.62 State (1, 5,	State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 4) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 4) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 1, 3) V = -0.62  State (3, 1, 3) V = -0.62  State (3, 2, 1) V = -0.62  State (3, 2, 2) V = -100000  State (3, 2, 2) V = -100000  State (3, 2, 3) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 4) V = -0.62  State (3, 4, 1) V = -0.62  State (3, 5, 1) V = 3.1  State (3, 5, 1) V = 3.1  State (3, 5, 1) V = 3.1  State (3, 5, 1) V = -0.62  State (4, 1, 1) V = -0.	Action State (4, 5, 1) V = 3.2 State (4, 5, 2) V = 3.2 State (4, 5, 4) V = 1.8.5 State (5, 1, 1) V = -0.62 State (5, 1, 2) V = -0.62 State (5, 1, 4) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 2, 3) V = -0.62 State (5, 2, 3) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 0.62 State (1, 1, 1) V = -0.62 State (1, 1, 1) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 2, 1) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 1) V = -0.62	State (2, 2, 2) V = -100000  Action  State (2, 2, 3) V = -100000  Best Action: No  Action  State (2, 2, 4) V = -100000  Best Action: No  Action  State (2, 3, 1) V = -100000  Action  State (2, 3, 1) V = -100000  Best Action: No  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 4, 1) V = -0.62  Best Action: A3  State (2, 4, 3) V = -0.62  Best Action: A3  State (2, 4, 3) V = -0.62  Best Action: A3  State (2, 4, 3) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 3, 3) V = -0.62  Best Action: No  Action  State (3, 3, 3) V = -0.62  Best Action: No  Action  State (3, 3, 3) V = -0.62  Best Action: A3  Best Action: No  Action  State (3, 3, 3) V = -0.62  Best Action: No  Action  State (3, 3, 3) V = -0.62  Best Action: No  Action  State (3, 3, 3) V = -0.62  Best Action: No  Action  State (3, 3, 3) V = -0.62  Best Action: No  Action  State (3, 4) V = -0.62  Best Action: No  Action  State (3, 4) V = -0.62  Best Action: No  Action  State (3, 4) V = -0.62  Best Action: No  Action  State (3, 4) V = -0.62  Best Action: No  Action  State (3, 4) V = -0.62  Best Action: No  Action  State (3, 4) V = -0.62  Best Action
State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 2, 1) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 3) V = -0.62 Best Action: A3 State (1, 2, 4) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 3) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 4, 2) V = -0.62 Best Action: A3 State (1, 4, 2) V = -0.62 Best Action: A3 State (1, 4, 3) V = -0.62 Best Action: A3 State (1, 4, 3) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 3) V = -0.62 Best Action: A3 State (1, 5, 2) V = -0.62 Best Action: A3 State (1, 5, 2) V = -0.62 Best Action: A3 State (1, 5, 2) V = -0.62 Best Action: A3 State (1, 5, 2) V = -0.62 Best Action: A3 State (2, 1, 1) V = -0.62 Best Action: A3 State (2, 1, 1) V = -0.62 Best Action: A3 State (2, 1, 1) V = -0.62 Best Action: A3 State (2, 1, 1) V = -0.62 Best Action: A3 State (2, 2, 1) V = -0.62 Best Action: A3 State (2, 2, 3) V = -0.62 Best Action: A3 State (2, 3, 1) V = -0.60 Best Action: A3 State (2, 3, 1) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 4) V = -100000 Best Action: N0 Action State (2, 3, 4) V = -100000 Best Action: N0	State (3, 2, 1) V = -100000  Action  State (3, 2, 2) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -0.62  State (3, 3, 1) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 4) V = -0.62  State (3, 4, 2) V = -0.62  State (3, 5, 1) V = 3.1  State (3, 5, 1) V = 3.1  State (3, 5, 3) V = 0.12  State (4, 1, 1) V = -0.62  State (4, 1, 2) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 2, 4) V = -0.62  State (4, 2, 4) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 3, 4) V = -0.62  State (4, 4, 2) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 4, 1) V = -0.62  State (4, 4, 2) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 4, 1) V = -0.62  State (4, 4, 1) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 4, 3) V = -0.62  State (4, 4, 4) V = -0.62  State (4, 5, 4) V = -0.62  State (4, 6, 6)	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 4) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 3) V = -0.62 State (1, 4, 4) V = -0.62 State (1, 4, 5) V = -0.62 State (1, 4, 5) V = -0.62 State (1, 5, 1) V = -0.62 State (1, 5, 1) V = -0.62 State (1, 4, 5) V = -0.62 State (1, 5, 1) V = -0.62 State (2, 1,	State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 3) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 2, 1) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 4) V = -0.62  State (3, 4, 3) V = -0.62  State (3, 5, 3) V = 0.62  State (4, 1, 1) V = 0.62  State (4, 1, 1) V = -0.62  State (4, 1, 3) V = 0.62  State (4, 1, 3) V = 0.62  State (4, 1, 1) V = 0.62  State	Action State (4, 5, 1) V = 3.2 State (4, 5, 2) V = 3.2 State (4, 5, 4) V = 1.8.5 State (5, 1, 1) V = -0.62 State (5, 1, 3) V = -0.62 State (5, 1, 4) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 2, 3) V = -0.62 State (5, 3, 3) V = 0.62 State (5, 4, 2) V = 0.62 State (5, 5, 3) V = 0.62 State (5, 5, 3) V = 0.62 State (5, 5, 3) V = 0.62 State (1, 1, 1) V = 0.62 State (1, 1, 1) V = -0.62 State (1, 1, 1) V = -0.62 State (1, 1, 1) V = -0.62 State (1, 2, 1) V = -0.62 State (1, 3, 1) V = -0.62	State (2, 2, 2) V = -100000  Action  State (2, 2, 3) V = -100000  Best Action: No  Action  State (2, 2, 4) V = -100000  Best Action: No  Action  State (2, 3, 1) V = -100000  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 3, 4) V = -100000  Best Action: No  Action  State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 5, 2) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 2, 2) V = -100000  Best Action: A3  State (3, 2, 3) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 2, 2) V = -0.62  State (3, 2, 3) V = -0.62  State (3, 2, 3) V = -0.62  State (3, 2, 3) V = -0.62  State (3, 3, 4) V = -0.62  State (3, 4, 4) V = -0.62  State (3, 4, 4) V = -0.62  State (3, 5, 4) V = -0.62  State (3, 5, 4) V = -0.62  State (3, 5, 4) V = -0.62  State (3, 6, 4) V = -0.62  State (3
State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 2, 1) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 3) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 4, 1) V = -0.62 Best Action: A3 State (1, 4, 1) V = -0.62 Best Action: A3 State (1, 4, 1) V = -0.62 Best Action: A3 State (1, 4, 2) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 4) V = -0.62 Best Action: A3 State (2, 1, 1) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: N0 Action State (2, 2, 4) V = -100000 Best Action: N0 Action State (2, 3, 2) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action	State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -100000 Best Action: No Action State (3, 2, 4) V = -100000 Best Action: No Action State (3, 3, 1) V = -0.62 Best Action: A3 State (3, 3, 3) V = -0.62 Best Action: A3 State (3, 3, 4) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 4, 2) V = -0.62 Best Action: A3 State (3, 4, 4) V = -0.62 Best Action: A3 State (3, 5, 4) V = -0.62 Best Action: A3 State (3, 5, 4) V = -0.62 Best Action: A3 State (3, 5, 4) V = -0.62 Best Action: A3 State (4, 1, 1) V = -0.62 Best Action: A3 State (4, 1, 1) V = -0.62 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 1, 2) V = -0.62 Best Action: A3 State (4, 1, 4) V = -0.62 Best Action: A3 State (4, 2, 3) V = -0.62 Best Action: A3 State (4, 2, 3) V = -0.62 Best Action: A3 State (4, 2, 3) V = -0.62 Best Action: A3 State (4, 2, 3) V = -0.62 Best Action: A3 Best Action: A	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 4) V = 3.2 State (5, 4, 4) V = 3.2 State (5, 5, 4) V = 100 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 4) V = 0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 2, 4) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 1) V = -0.62 State (1, 4, 1) V = -0.62 State (1, 5, 2) V = -0.62 State (1, 4, 1) V = -0.62 State (1, 5, 2) V = 0.62 State (1, 5, 2) V = 0.62 State (1, 5, 2) V = 0.62 State (1, 5, 3) V = -0.62 State (2, 1, 1) V = -0.62 State (2, 2, 1) V	State (2, 4, 1) V = -0.62 State (2, 4, 2) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 4, 4) V = -0.62 State (2, 5, 4) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 4) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 1, 3) V = -0.62 State (3, 1, 3) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 2, 1) V = -0.000 State (3, 2, 1) V = -0.000 State (3, 2, 2) V = -100000 State (3, 2, 2) V = -100000 State (3, 2, 3) V = -0.62 State (3, 3, 3) V = -0.62 State (3, 3, 4) V = -0.62 State (3, 4, 1) V = -0.62 State (3, 5, 1) V = 3.1 State (3, 5, 1) V = -0.62 State (4, 1, 1) V = -0.62 State (4, 1, 1) V = -0.62 State (4, 1, 1) V = -0.62 State (4, 2, 2) V = -0.62 State (4, 2, 3) V = -0.62	Action State (4, 5, 1) V = 3.2 State (4, 5, 2) V = 3.2 State (4, 5, 3) V = 0.14 State (5, 1, 1) V = 0.62 State (5, 1, 2) V = 0.62 State (5, 1, 4) V = 0.62 State (5, 2, 2) V = 0.62 State (5, 2, 2) V = 0.62 State (5, 2, 2) V = 0.62 State (5, 2, 3) V = 0.62 State (5, 3, 1) V = 0.62 State (5, 4, 1) V = 1.85 State (5, 4, 1) V = 1.85 State (5, 4, 1) V = 1.85 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 5, 2) V = 0.14 State (5, 5, 2) V = 0.04 State (5, 5, 2) V = 0.04 State (5, 5, 3) V = 0.0 State (1, 1, 1) V = 0.62 State (1, 1, 1) V = 0.62 State (1, 1, 2) V = 0.62 State (1, 1, 3) V = 0.62 State (1, 2, 3) V = 0.62 State (1, 3, 4) V = 0.62 State (1, 3, 4) V = 0.62 State (1, 3, 4) V = 0.62 State (1, 4, 4) V =	State (2, 2, 2) V = -100000  Action  State (2, 2, 3) V = -100000  Best Action: No  Action  State (2, 3, 1) V = -100000  State (2, 3, 1) V = -100000  State (2, 3, 1) V = -100000  Best Action: No  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 4, 1) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 5, 3) V = -0.62  Best Action: A3  State (2, 5, 3) V = -0.62  Best Action: A3  State (2, 5, 3) V = -0.62  Best Action: A3  State (2, 5, 3) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 3, 1) V = -0.62  Best Action: A3  State (3, 3, 1) V = -0.62  Best Action: A3  State (3, 3, 1) V = -0.62  Best Action: A3  State (3, 3, 3) V = -0.62  Best Action: No  Action  State (3, 3, 3) V = -0.62  Best Action: No  Action  State (3, 3, 3) V = -0.62  Best Action: No  Action  State (3, 3, 3) V = -0.62  Best Action: No  Action  State (3, 3, 3) V = -0.62  Best Action: No  Action  State (3, 3, 3) V = -0.62  Best Action: No  Action  State (3, 3, 3) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 4) V = -0.62  Best Action: No  Action  State (3, 4) V = -0.62  Best Action: No  Action  State (3, 4) V = -0.62  Best Action: No  Action  State (3, 4) V = -0.62  Best Action: No  Action  State (3, 4) V = -0.62  Best Action: No  Action  State (3, 4) V = -0.62  Best Act
State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 3) V = -0.62 Best Action: A3 State (1, 2, 4) V = -0.62 Best Action: A3 State (1, 3, 3) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 3) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 4, 3) V = -0.62 Best Action: A3 State (1, 4, 2) V = -0.62 Best Action: A3 State (1, 4, 3) V = -0.62 Best Action: A3 State (1, 4, 4) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 4) V = -0.62 Best Action: A3 State (2, 1, 1) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 2, 1) V = -0.62 Best Action: A3 State (2, 2, 1) V = -0.62 Best Action: A3 State (2, 3, 1) V = -100000 Best Action: N0 Action State (2, 3, 1) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 4) V = -100000 Best Action: N0 Action State (2, 3, 4) V = -100000 Best Action: N0 Action State (2, 3, 4) V = -100000 Best Action: N0 Action State (2, 3, 4) V = -100000 Best Action: N0 Action State (2, 3, 4) V = -100000 Best Action: N0 Action State (2, 3, 4) V = -100000 Best Action: N0 Action State (2, 3, 4) V = -1000000 Best Action: N0 Action State (2, 3, 4) V = -1000000 Best Action: N0 Action State (2, 3, 4) V = -1000000 Best Action: N0 Action State (2, 3, 4) V = -1000000 Best Action: N0 Action State (2, 3, 4) V = -1000000 Best Action: N0 Action State (2, 3, 4) V = -1000000 Best Action: N0 Action	State (3, 2, 1) V = -100000  Action  State (3, 2, 2) V = -100000  Action  State (3, 2, 3) V = -100000  Action  State (3, 2, 4) V = -100000  Action  State (3, 3, 1) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 4) V = -0.62  State (3, 4, 2) V = -0.62  State (3, 4, 2) V = -0.62  State (3, 4, 3) V = -0.62  State (3, 5, 1) V = 3.1  State (3, 5, 1) V = 3.1  State (3, 5, 4) V = 1.000  State (4, 1, 1) V = -0.62  State (4, 1, 1) V = -0.62  State (4, 1, 2) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 4, 1) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 4, 1) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 4, 1) V = -0.62  State (4, 4, 1) V = -0.62  State (4, 5, 3) V = -0.62  State (4, 5, 1) V = 0.62  State (4, 5, 2) V = -1000  Action  State (4, 5, 2) V = -1000  State (4, 5, 2) V = 3.2  Best Action: A3  Sest Action: No  Action  State (4, 5, 2) V = -1000  Action  State (4, 5, 2) V = 3.2  Best Action: A3  Sest Action: No  Sest Action: A3  Sest Action: No  Ses	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 4, 4) V = 3.2 State (5, 5, 4) V = 10.4 State (5, 5, 4) V = 10.0 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 100 State (5, 5, 4) V = 0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 2, 1) V = -0.62 State (1, 2, 3) V = 0.62 State (1, 2, 3) V = 0.62 State (1, 3, 1) V = -0.62 State (1, 3, 2) V = -0.62 State (1, 3, 4) V = 0.62 State (1, 3, 4) V = 0.62 State (1, 3, 4) V = 0.62 State (1, 4, 4) V = 0.62 State (1, 5, 1) V = 0.62 State (1, 4, 4) V = 0.62 State (1, 5, 2) V = 0.62 State (2, 1, 3) V = 0.62 State (2, 2, 3) V = 0.62 State (2, 2, 3) V = 0.60 State (2, 2, 3) V = 0.600 State (2, 2, 3) V = 0.0000 State (2, 2, 3) V = 0.00000 State (2, 2, 3) V = 0.000000	State (2, 4, 1) V = -0.62 State (2, 4, 2) V = -0.62 State (2, 4, 3) V = -0.62 State (2, 4, 4) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 1) V = -0.62 State (2, 5, 2) V = -0.62 State (2, 5, 4) V = -0.62 State (2, 5, 4) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 1) V = -0.62 State (3, 1, 2) V = -0.62 State (3, 2, 2) V = -100000 State (3, 2, 2) V = -100000 State (3, 2, 3) V = -0.62 State (3, 3, 2) V = -0.62 State (3, 3, 3) V = -0.62 State (3, 3, 3) V = -0.62 State (3, 4, 1) V = -0.62 State (3, 5, 2) V = 3.1 State (3, 5, 3) V = 3.1 State (3, 5, 3) V = -0.62 State (4, 1, 1) V = -0.62 State (4, 1, 2) V = -0.62 State (4, 2, 2) V = -0.62 State (4, 2, 2) V = -0.62 State (4, 2, 3) V = -0.62 State (4, 2, 2) V = -0.62 State (4, 2, 2) V = -0.62 State (4, 2, 3) V = -0.62 State (4, 2, 3) V = -0.62 State (4, 2, 2) V = -0.62 State (4, 2, 3) V = -0.62 State (4, 2, 2) V = -0.62 State (4, 2, 3) V = -0.62 State (4, 2, 2) V = -0.62 State (4, 2, 3) V = -0.62 State (4, 3, 3) V	Action State (4, 5, 1) V = 3.2 State (4, 5, 2) V = 3.2 State (4, 5, 4) V = 10.4 State (5, 1, 1) V = 0.62 State (5, 1, 1) V = 0.62 State (5, 1, 4) V = 0.62 State (5, 2, 2) V = 0.62 State (5, 2, 2) V = 0.62 State (5, 2, 2) V = 0.62 State (5, 2, 3) V = 0.62 State (5, 2, 3) V = 0.62 State (5, 3, 1) V = 0.62 State (5, 3, 4) V = 0.62 State (5, 4, 2) V = 0.62 State (5, 4, 3) V = 3.2 State (5, 5, 4) V = 0.62 State (5, 5, 4) V = 0.62 State (5, 5, 1) V = 100 State (5, 5, 4) V = 0.62 State (1, 1, 1) V = 0.62 State (1, 1, 3) V = 0.62 State (1, 2, 3) V = 0.62 State (1, 3, 3) V = 0.62 State (1, 1, 3) V = 0.62 State (1, 1, 3) V = 0.62 State (1, 1, 3) V = 0.62 State (1, 2, 3) V = 0.62 State (1, 3, 3) V = 0.62 State (1, 3, 3) V = 0.62 State (1, 3, 3) V = 0.62 State (1, 4, 3) V = 0.62 State (1, 4, 3) V = 0.62 State (1, 3, 4) V = 0.62 State (1, 4, 4) V = 0	State (2, 2, 2) V = -100000  Action  State (2, 2, 3) V = -100000  Action  State (2, 2, 4) V = -100000  Best Action: No  Action  State (2, 3, 1) V = -100000  Action  State (2, 3, 1) V = -100000  Best Action: No  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 3, 4) V = -100000  State (2, 4, 2) V = -0.62  Best Action: A3  State (2, 4, 3) V = -0.62  Best Action: A3  State (2, 4, 3) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -100000  Best Action: No  Action  State (3, 2, 1) V = -100000  Best Action: No  Action  State (3, 2, 1) V = -100000  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No  Action  State (3, 3, 4) V = -0.62  Best Action: No
State (1, 1, 2) V = -0.62  State (1, 1, 3) V = -0.62  State (1, 1, 4) V = -0.62  State (1, 2, 1) V = -0.62  State (1, 2, 2) V = -0.62  State (1, 2, 2) V = -0.62  State (1, 2, 3) V = -0.62  State (1, 2, 3) V = -0.62  State (1, 3, 4) V = -0.62  State (1, 3, 4) V = -0.62  State (1, 3, 4) V = -0.62  State (1, 4, 1) V = -0.62  State (1, 4, 1) V = -0.62  State (1, 4, 3) V = -0.62  State (1, 5, 1) V = -0.62  State (2, 1, 1) V = -0.62  State (2, 1, 1) V = -0.62  State (2, 1, 2) V = -0.62  State (2, 3, 2) V = -100000  Action  State (2, 3, 3) V = -100000  Action  State (2, 3, 3) V = -100000  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 4, 2) V = -0.62  Sest Action: No  Action  State (2, 5, 4) V = -0.62  Sest Action: No  Action  State (2, 6, 2) Sest Action	State (3, 2, 1) V = -100000  Action  State (3, 2, 2) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 3, 1) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 4) V = -0.62  State (3, 4, 1) V = -0.62  State (3, 4, 3) V = -0.62  State (3, 4, 4) V = -0.62  State (3, 5, 1) V = 3.1  State (3, 5, 3) V = 1.8  State (3, 5, 3) V = 1.8  State (3, 5, 3) V = 1.8  State (4, 1, 1) V = -0.62  State (4, 1, 1) V = -0.62  State (4, 1, 2) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 4, 4) V = -0.62  State (4, 4, 4) V = -0.60  State (4, 4, 4) V = -0.60  State (4, 4, 4) V = -0.60  State (4, 5, 1) V =	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 5, 1) V = 100 State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 Best Action: A3 Best Action: A3 Best Action: A3 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 4) V = 10.62 State (1, 1, 2) V = -0.62 State (1, 1, 4) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 3) V = -0.62 State (1, 3, 4) V = -0.62 State (1, 4, 3) V = -0.62 State (1, 4, 4) V = -0.62 State (1, 5, 3) V = -0.62 State (1, 4, 3) V = -0.62 State (1, 5, 3) V = -0.62 State (2, 1, 3) V = -0.62 State (2, 2, 3) V = -100000 State (2, 2, 3) V = -100000 State (2, 2, 3) V = -100000 State (2, 2,	State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 3) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 1, 3) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 2, 1) V = -0.62  State (3, 2, 1) V = -0.62  State (3, 2, 1) V = -0.62  State (3, 2, 2) V = -100000  State (3, 2, 2) V = -100000  State (3, 2, 3) V = -0.62  State (3, 3, 4) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 4, 3) V = -0.62  State (3, 5, 3) V = -0.62  State (3, 5, 3) V = -0.62  State (3, 5, 3) V = 0.62  State (4, 1, 1) V = -0.62  State (4, 1, 1) V = -0.62  State (4, 2, 1) V = 0.62  State (4, 2, 1) V = 0.62  State (4, 2, 1) V = 0.62  State (4, 2, 3) V = 0.62  State (4, 2, 1) V = 0.62  State (4, 2, 1) V = 0.62  State (4, 2, 3) V = 0.62  St	Action State (4, 5, 1) V = 3.2 State (4, 5, 2) V = 3.2 State (4, 5, 4) V = 1.8.5 State (5, 1, 1) V = -0.62 State (5, 1, 3) V = -0.62 State (5, 1, 4) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 2, 3) V = -0.62 State (5, 3, 1) V = -0.62 State (5, 3, 1) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 3, 3) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 2) V = 0.62 State (5, 5, 4) V = 0.8 State (5, 5, 4) V = 0.9 State (5, 5, 4) V = 0.0 State (1, 1, 1) V = -0.62 State (1, 1, 1) V = -0.62 State (1, 1, 1) V = -0.62 State (1, 2, 2) V = -0.62 State (1, 2, 2) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 3) V = -0.62 State (1, 4, 3) V = -0.62 State (	State (2, 2, 2) V = -100000 Action  State (2, 2, 3) V = -100000 Best Action: No Action  State (2, 2, 4) V = -100000 Best Action: No Action  State (2, 3, 1) V = -100000 Best Action: No Action  State (2, 3, 2) V = -100000 Best Action: No Action  State (2, 3, 3) V = -100000 Best Action: No Action  State (2, 3, 3) V = -100000 Best Action: No Action  State (2, 3, 4) V = -100000 Best Action: No Action  State (2, 4, 2) V = -0.62 Best Action: A3  State (2, 4, 3) V = -0.62 Best Action: A3  State (2, 4, 3) V = -0.62 Best Action: A3  State (2, 5, 1) V = -0.62 Best Action: A3  State (2, 5, 1) V = -0.62 Best Action: A3  State (2, 5, 1) V = -0.62 Best Action: A3  State (2, 5, 1) V = -0.62 Best Action: A3  State (3, 1, 1) V = -0.62 Best Action: A3  State (3, 1, 1) V = -0.62 Best Action: A3  State (3, 1, 1) V = -0.62 Best Action: A3  State (3, 1, 1) V = -0.62 Best Action: A3  State (3, 1, 1) V = -0.62 Best Action: A3  State (3, 1, 1) V = -0.62 Best Action: A3  State (3, 1, 1) V = -0.62 Best Action: A3  State (3, 1, 1) V = -0.62 Best Action: A3  State (3, 2, 1) V = -100000 Best Action: No Action  State (3, 2, 1) V = -100000 Best Action: No Action  State (3, 2, 3) V = -100000 Best Action: No Action  State (3, 3, 3) V = -0.62 Best Action: A3  State (3, 3, 3) V = -0.62 Best Action: A3  State (3, 3, 3) V = -0.62 Best Action: A3  State (3, 3, 3) V = -0.62 Best Action: A3  State (3, 3, 3) V = -0.62 Best Action: A3  State (3, 3, 3) V = -0.62 Best Action: A3  State (3, 3, 4) V = -0.62 Best Action: A3  State (3, 4, 2) V = -0.62 Best Action: A3  State (3, 4, 2) V = -0.62 Best Action: A3  State (3, 4, 2) V = -0.62 Best Action: A3  State (3, 4, 2) V = -0.62 Best Action: A3  State (3, 4, 2) V = -0.62 Best Action: A3  State (3, 4, 2) V = -0.62 Best Action: A3  State (3, 4, 2) V = -0.62 Best Action: A3  State (3, 4, 2) V = -0.62 Best Action: A3  State (3, 4, 2) V = -0.62 Best Action: A3  Best Action: A3  State (3, 4, 2) V = -0.62 Best Action: A3  State (3, 4, 2) V = -0.62 Best Action: A3  Best Action: A3  State (3, 4, 2) V = -0.62 Best Actio
State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 3) V = -0.62 Best Action: A3 State (1, 2, 3) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 4, 1) V = -0.62 Best Action: A3 State (1, 4, 1) V = -0.62 Best Action: A3 State (1, 4, 1) V = -0.62 Best Action: A3 State (1, 4, 2) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 1) V = -0.62 Best Action: A3 State (1, 5, 4) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 2, 2) V = -100000 Best Action: N0 Action State (2, 2, 3) V = -100000 Best Action: N0 Action State (2, 3, 3) V = -100000 Best Action: N0 Action State (2, 3, 4) V = -100000 Best Action: N0 Action State (2, 4, 2) V = -100000 Best Action: N0 Action State (2, 4, 2) V = -0.62 Best Action: N0 Action State (2, 4, 2) V = -0.62 Best Action: N0 Action State (2, 4, 2) V = -0.62 Best Action: N0 Action State (2, 4, 2) V = -0.62 Best Action: N0 Action State (2, 4, 2) V = -0.62 Best Action: N0 Action State (2, 5, 4) V = -0.62 Best Action: N0 Action State (2, 5, 4) V = -0.62 Best Action: N0 Action State (2, 5, 4) V = -0.62 Best Action: A3 State (2, 6, 4) V = -0.62 Best Action: A3 State (2, 6, 4) V = -0.62 Best Action: A3 State (2, 6, 4) V = -0.62 Best Action: A3 State (2, 6, 4) V = -0.62 Best Action: A3 State (2, 6, 4) V = -0.62 Best Action: A3 State (2, 6, 4) V = -0.62 Best Action: A3 State (2, 6, 4) V =	State (3, 2, 1) V = -100000  Action  State (3, 2, 2) V = -100000  Best Action: No Action  State (3, 2, 3) V = -100000  Best Action: No Action  State (3, 2, 4) V = -100000  State (3, 3, 1) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 4) V = -0.62  State (3, 4, 1) V = -0.62  State (3, 4, 1) V = -0.62  State (3, 4, 1) V = -0.62  State (3, 4, 2) V = -0.62  State (3, 4, 2) V = -0.62  State (3, 5, 1) V = 3.1  State (3, 5, 3) V = 3.1  State (3, 5, 3) V = 0.62  State (3, 5, 1) V = 3.1  State (3, 5, 1) V = 3.1  State (3, 5, 1) V = 3.1  State (3, 5, 1) V = 0.62  State (4, 1, 1) V = -0.62  State (4, 1, 1) V = -0.62  State (4, 1, 1) V = -0.62  State (4, 1, 2) V = -0.62  State (4, 1, 4) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 5, 3) V = -0.62  State (4, 4, 3) V = -0.62  State (4, 4, 4) V = -1000  Action  State (4, 5, 3) V = -0.62  State (4, 5, 3)	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 5, 4) V = 3.2 State (5, 5, 4) V = 3.2 State (5, 5, 4) V = 100 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 State (5, 5, 3) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 100 State (5, 5, 4) V = 0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 2, 1) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 1) V = -0.62 State (1, 4, 4) V = -0.62 State (1, 4, 1) V = -0.62 State (1, 4, 4) V = -0.62 State (1, 5, 1) V = -0.62 State (1, 5, 1) V = -0.62 State (1, 4, 4) V = -0.62 State (1, 5, 1) V = -0.62 State (2, 1, 3) V = -0.62 State (2, 2, 1) V = -0.62 State (2, 2, 1) V = -0.62 State (2, 2, 1) V = -0.60 State (2, 2, 3) V = -100000 State (2, 3, 1) V = -100000 State (2, 2, 3) V = -100000 State	State (2, 4, 1) V = -0.62  State (2, 5, 1) V = -0.62  State (3, 5, 1) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 1, 3) V = -0.62  State (3, 1, 3) V = -0.62  State (3, 2, 1) V = -0.62  State (3, 2, 1) V = -0.62  State (3, 2, 1) V = -0.60  State (3, 2, 2) V = -100000  State (3, 2, 2) V = -100000  State (3, 2, 3) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 4, 1) V = -0.62  State (3, 5, 1) V = 3.1  State (3, 5, 1) V = 3.1  State (3, 5, 2) V = 3.1  State (4, 1, 1) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 3, 3) V = -0.	Action State (4, 5, 1) V = 3.2 State (4, 5, 2) V = 3.2 State (4, 5, 4) V = 1.8.5 State (5, 1, 1) V = -0.62 State (5, 1, 2) V = -0.62 State (5, 1, 4) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 2, 2) V = -0.62 State (5, 2, 3) V = -0.62 State (5, 3, 1) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 4) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 5, 3) V = 100 State (5, 5, 3) V = 100 State (5, 5, 3) V = 100 State (5, 5, 4) V = 3.2 State (5, 4, 3) V = 3.2 State (5, 5, 4) V = 3.6 State (1, 1, 1) V = -0.62 State (1, 1, 3) V = -0.62 State (1, 1, 3) V = -0.62 State (1, 2, 1) V = -0.62 State (1, 3, 1) V = -0.62 State (1, 4, 1) V = -0.62 State (1, 5,	State (2, 2, 2) V = -100000  Action  State (2, 2, 4) V = -100000  Action  State (2, 2, 4) V = -100000  Best Action: No  Action  State (2, 3, 1) V = -100000  Action  State (2, 3, 1) V = -100000  Best Action: No  Action  State (2, 3, 2) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 3, 3) V = -100000  Best Action: No  Action  State (2, 4, 1) V = -100000  Best Action: No  Action  State (2, 4, 1) V = -0.62  Best Action: A3  State (2, 4, 3) V = -0.62  Best Action: A3  State (2, 4, 3) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (2, 5, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 1, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: A3  State (3, 2, 1) V = -0.62  Best Action: No  Action  State (3, 2, 1) V = -100000  Best Action: No  Action  State (3, 2, 1) V = -100000  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3, 3, 1) V = -0.62  Best Action: No  Action  State (3,
State (1, 1, 2) V = -0.62 Best Action: A3 State (1, 1, 4) V = -0.62 Best Action: A3 State (1, 2, 1) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 2) V = -0.62 Best Action: A3 State (1, 2, 4) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 1) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 3, 4) V = -0.62 Best Action: A3 State (1, 4, 2) V = -0.62 Best Action: A3 State (1, 4, 2) V = -0.62 Best Action: A3 State (1, 4, 3) V = -0.62 Best Action: A3 State (1, 4, 3) V = -0.62 Best Action: A3 State (1, 5, 3) V = -0.62 Best Action: A3 State (1, 5, 4) V = -0.62 Best Action: A3 State (1, 5, 4) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 1, 2) V = -0.62 Best Action: A3 State (2, 2, 1) V = -0.62 Best Action: A3 State (2, 2, 1) V = -0.60 Best Action: A3 State (2, 2, 1) V = -0.00 Best Action: A3 State (2, 2, 1) V = -0.00 Best Action: A3 State (2, 2, 1) V = -0.00 Best Action: A3 State (2, 2, 1) V = -0.00 Best Action: A3 State (2, 3, 1) V = -0.00 Best Action: A3 State (2, 3, 1) V = -0.00 Best Action: N0 Action State (2, 3, 1) V = -100000 Best Action: N0 Action State (2, 3, 1) V = -100000 Best Action: N0 Action State (2, 3, 4) V = -100000 Best Action: N0 Action State (2, 4, 1) V = -0.62 Best Action: N0 Action State (2, 4, 1) V = -0.62 Best Action: N0 Action State (2, 4, 1) V = -0.62 Best Action: N0 Action State (2, 4, 1) V = -0.62 Best Action: N0 Action State (2, 4, 1) V = -0.62 Best Action: N0 Action State (2, 4, 1) V = -0.62 Best Action: N0 Action State (2, 4, 1) V = -0.62 Best Action: A3 State (2, 4, 1) V = -0.62 Best Action: N0 Action State (2, 4, 1) V = -0.62 Best Action: N0 Action State (2, 4, 1) V = -0.62 Best Action: N0 Action State (2, 4, 1) V = -0.62 Best Action: A3 State (2, 4, 1) V = -0.62 Best Action: A3 State (2, 4, 1) V = -0.62 Best Action: N0 Action State (2, 4, 1) V = -0.62 Best Action: A3 State (2,	State (3, 2, 1) V = -100000  Action  State (3, 2, 2) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -100000  Best Action: No  Action  State (3, 2, 3) V = -0.000  Action  State (3, 3, 1) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 3, 4) V = -0.62  State (3, 4, 1) V = -0.62  State (3, 4, 2) V = -0.62  State (3, 4, 3) V = -0.62  State (3, 5, 1) V = 3.1  State (3, 5, 3) V = 3.1  State (3, 5, 3) V = 0.12  State (4, 1, 1) V = -0.62  State (4, 1, 1) V = -0.62  State (4, 1, 2) V = -0.62  State (4, 1, 2) V = -0.62  State (4, 1, 2) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 2, 1) V = -0.62  State (4, 2, 3) V = -0.62  State (4, 3, 3) V = -0.62  State (4, 4, 1) V = -0.62  State (4, 4, 1) V = -0.62  State (4, 5, 3) V = -0.82  State (4, 4, 1) V = -0.62  State (4, 5, 1) V = 3.2  State (4, 5, 3) V = 3.2  State (4, 5, 3) V = 3.2  State (4, 5, 3) V = 0.82  State (4, 5, 4) V = -0.62  State (4, 5, 5) V = 3	State (5, 3, 2) V = -0.62 State (5, 3, 4) V = -0.62 State (5, 4, 1) V = 18.5 State (5, 4, 2) V = 0.14 State (5, 4, 2) V = 0.14 State (5, 4, 3) V = 3.2 State (5, 4, 1) V = 3.2 State (5, 5, 1) V = 100 State (5, 5, 1) V = 100 State (5, 5, 2) V = 100 State (5, 5, 2) V = 100 Best Action: A3 State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action State (1, 1, 1) V = -0.62 State (1, 1, 2) V = -0.62 State (1, 1, 4) V = -0.62 State (1, 2, 2) V = -0.62 State (1, 2, 3) V = -0.62 State (1, 3, 2) V = -0.62 State (1, 3, 2) V = -0.62 State (1, 3, 4) V = -0.62 State (1, 3, 4) V = -0.62 State (1, 4, 1) V = -0.62 State (1, 5, 1) V = -0.62 State (1, 5	State (2, 4, 1) V = -0.62  State (2, 4, 2) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 4, 3) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 1) V = -0.62  State (2, 5, 2) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 3) V = -0.62  State (2, 5, 3) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 1, 2) V = -0.62  State (3, 1, 3) V = -0.62  State (3, 1, 1) V = -0.62  State (3, 2, 1) V = -0.62  State (3, 3, 3) V = -0.62  State (3, 4, 1) V = -0.62  State (3, 4, 1) V = -0.62  State (3, 4, 3) V = -0.62  State (3, 4, 3) V = -0.62  State (3, 4, 3) V = -0.62  State (3, 5, 3) V = 0.62  State (4, 1, 1) V = 0.62  State (4, 1, 1) V = 0.62  State (4, 2, 1) V = 0.62  State (4, 2, 1) V = 0.62  State (4, 2, 3) V = 0.62  State (4, 3, 1) V = 0.62  State (4, 3, 3) V = 0.62  State (4,	Action State (4, 5, 1) V = 3.2 State (4, 5, 2) V = 3.2 State (4, 5, 4) V = 10.4 State (5, 1, 1) V = 0.62 State (5, 1, 3) V = 0.62 State (5, 1, 4) V = 0.62 State (5, 2, 2) V = 0.62 State (5, 2, 2) V = 0.62 State (5, 2, 2) V = 0.62 State (5, 2, 3) V = 0.62 State (5, 2, 3) V = 0.62 State (5, 3, 1) V = 0.62 State (5, 3, 1) V = 0.62 State (5, 3, 1) V = 0.62 State (5, 3, 4) V = 0.62 State (5, 3, 4) V = 0.62 State (5, 3, 3) V = 0.62 State (5, 3, 4) V = 0.62 State (5, 3, 3) V = 0.62 State (5, 4, 2) V = 0.62 State (5, 5, 2) V = 0.06 State (5, 5, 1) V = 0.62 State (5, 5, 1) V = 0.62 State (5, 5, 1) V = 0.62 State (5, 5, 1) V = 0.06 State (1, 1, 1) V = 0.62 State (1, 1, 1) V = 0.62 State (1, 1, 1) V = 0.62 State (1, 1, 2) V = 0.62 State (1, 2, 2) V = 0.62 State (1, 2, 2) V = 0.62 State (1, 2, 3) V = 0.62 State (1, 3, 3) V = 0.62 State (1, 4, 3) V = 0.62 State (1, 5, 1)	State (2, 2, 2) V = -100000 Action  State (2, 2, 3) V = -100000 Best Action: No Action  State (2, 2, 4) V = -100000 Best Action: No Action  State (2, 3, 1) V = -100000 Best Action: No Action  State (2, 3, 2) V = -100000 Best Action: No Action  State (2, 3, 3) V = -100000 Best Action: No Action  State (2, 3, 3) V = -100000 Best Action: No Action  State (2, 3, 4) V = -100000 Best Action: No Action  State (2, 4, 2) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3 State (2, 4, 3) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3 State (2, 5, 1) V = -0.62 Best Action: A3 State (3, 1, 1) V = -0.62 Best Action: A3 State (3, 1, 1) V = -0.62 Best Action: A3 State (3, 1, 1) V = -0.62 Best Action: A3 State (3, 1, 1) V = -0.62 Best Action: A3 State (3, 1, 1) V = -0.62 Best Action: A3 State (3, 1, 1) V = -0.62 Best Action: A3 State (3, 2, 1) V = -100000 Best Action: A3 State (3, 2, 1) V = -100000 Best Action: No Action State (3, 2, 2) V = -100000 Best Action: No Action State (3, 2, 3) V = -0.62 Best Action: No Action State (3, 3, 3) V = -0.62 Best Action: No Action State (3, 3, 3) V = -0.62 Best Action: No Action State (3, 3, 3) V = -0.62 Best Action: No Best Action:

```
State (4, 1, 2) V = -0.62 Best Action: A3
State (4, 1, 3) V = -0.62 Best Action: A3
                                          Best Action: A3
State (4, 1, 4) V = -0.62
State (4, 2, 1) V = -0.62
                                          Best Action: A3
State (4, 2, 1) V = -0.62

State (4, 2, 3) V = -0.62

State (4, 2, 3) V = -0.62

State (4, 2, 4) V = -0.62
                                           Best Action: A3
State (4, 3, 1) V = -0.62 Best Action: A3
State (4, 3, 2) V = -0.62 Best Action: A3
State (4, 3, 3) V = -0.62 Best Action: A3
State (4, 3, 4) V = -0.62 Best Action: A3
State (4, 4, 1) V = -1000 Best Action: No
Action
State (4, 4, 2) V = -1000 Best Action: No
Action
State (4, 4, 3) V = -1000 Best Action: No
Action
State (4, 4, 4) V = -1000 Best Action: No
Action
State (4, 5, 1) V = 3.2 Best Action: A4
State (4, 5, 2) V = 3.2 Best Action: A3
State (4, 5, 3) V = 0.14 Best Action: A3
State (4, 5, 4) V = 18.5 Best Action: A1
State (5, 1, 1) V = -0.62 Best Action: A3
State (5, 1, 2) V = -0.62

State (5, 1, 3) V = -0.62

State (5, 1, 3) V = -0.62

State (5, 1, 4) V = -0.62
                                          Best Action: A3
State (5, 2, 1) V = -0.62 Best Action: A3
State (5, 2, 2) V = -0.62 Best Action: A3
State (5, 2, 3) V = -0.62
                                          Best Action: A3
State (5, 2, 4) V = -0.62
State (5, 3, 1) V = -0.62
State (5, 3, 2) V = -0.62
                                          Best Action: A3
State (5, 3, 3) V = -0.62
                                          Best Action: A3
State (5, 3, 4) V = -0.62 Best Action: A3
State (5, 4, 1) V = -0.62 Best Action: A:
State (5, 4, 1) V = 18.5 Best Action: A1
State (5, 4, 2) V = 0.14 Best Action: A3
State (5, 4, 3) V = 3.2 Best Action: A4
State (5, 4, 4) V = 3.2 Best Action: A3
State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action
Iteration 10:

      State (1, 1, 1) V = -0.62
      Best Action: A3

      State (1, 1, 2) V = -0.62
      Best Action: A3

      State (1, 1, 3) V = -0.62
      Best Action: A3

      State (1, 1, 4) V = -0.62
      Best Action: A3

State (1, 2, 1) V = -0.62
                                          Best Action: A3
State (1, 2, 2) V = -0.62
State (1, 2, 3) V = -0.62
State (1, 2, 4) V = -0.62
State (1, 3, 1) V = -0.62
                                         Best Action: A3
Best Action: A3
Best Action: A3
                                           Best Action: A3
State (1, 3, 2) V = -0.62
                                          Best Action: A3
State (1, 3, 3) V = -0.62
                                          Best Action: A3
State (1, 3, 4) V = -0.62
State (1, 4, 1) V = -0.62
State (1, 4, 2) V = -0.62
                                         Best Action: A3
Best Action: A3
Best Action: A3
                                          Best Action: A3
State (1, 4, 3) V = -0.62
                                          Best Action: A3
State (1, 4, 4) V = -0.62
State (1, 5, 1) V = -0.62
State (1, 5, 2) V = -0.62
                                          Best Action: A3
Best Action: A3
State (1, 5, 3) V = -0.62
                                           Best Action: A3
                                          Best Action: A3
State (1, 5, 4) V = -0.62
State (2, 1, 1) V = -0.62 Best Action: A3
State (2, 1, 2) V = -0.62 Best Action: A3
State (2, 1, 2) V = -0.62 Best Action: A3
State (2, 1, 4) V = -0.62 Best Action: A3
State (2, 2, 1) V = -100000 Best Action: No
Action
State (2, 2, 2) V = -100000 Best Action: No
Action
State (2, 2, 3) V = -100000 Best Action: No
State (2, 2, 4) V = -100000 Best Action: No
 State (2, 3, 1) V = -100000 Best Action: No
State (2, 3, 2) V = -100000 Best Action: No
Action
State (2, 3, 3) V = -100000 Best Action: No
Action State (2, 3, 4) V = -100000 Best Action: No State (2, 3, 4) V = -100000 Best Action: No
Action
State (2, 4, 1) V = -0.62 Best Action: A3
State (2, 4, 2) V = -0.62 Best Action: A3
State (2, 4, 3) V = -0.62 Best Action: A3
State (2, 4, 4) V = -0.62 Best Action: A3
State (2, 5, 1) V = -0.62 Best Action: A3
State (2, 5, 2) V = -0.62 Best Action: A3
State (2, 5, 3) V = -0.62
State (2, 5, 4) V = -0.62
State (3, 1, 1) V = -0.62
                                         Best Action: A3
Best Action: A3
Best Action: A3
State (3, 1, 2) V = -0.62 Best Action: A3
State (3, 1, 3) V = -0.62 Best Action: A3
State (3, 1, 4) V = -0.62 Best Action: A3
 State (3, 2, 1) V = -100000 Best Action: No
Action
State (3, 2, 2) V = -100000 Best Action: No
Action
State (3, 2, 3) V = -100000 Best Action: No
Action
State (3, 2, 4) V = -100000 Best Action: No
State (3, 3, 1) V = -0.62 Best Action: A3
State (3, 3, 2) V = -0.62 Best Action: A3
State (3, 3, 3) V = -0.62 Best Action: A3
State (3, 3, 4) V = -0.62 Best Action: A3
State (3, 4, 1) V = -0.62 Best Action: A3
State (3, 4, 2) V = -0.62 Best Action: A3
State (3, 4, 3) V = -0.62 Best Action: A3
State (3, 4, 4) V = -0.62 Best Action: A3
State (3, 5, 1) V = 3.1 Best Action: A4
State (3, 5, 2) V = 3.1 Best Action: A3
State (3, 5, 3) V = 0.12 Best Action: A3
State (3, 5, 4) V = 18.0 Best Action: A2
State (4, 1, 1) V = -0.62
State (4, 1, 2) V = -0.62
                                          Best Action: A3
State (4, 1, 3) V = -0.62
                                          Best Action: A3
State (4, 1, 4) V = -0.62 Best Action: A3
State (4, 2, 1) V = -0.62
                                          Best Action: A3
State (4, 2, 1) V = -0.62

State (4, 2, 3) V = -0.62

State (4, 2, 3) V = -0.62

State (4, 2, 4) V = -0.62
                                           Best Action: A3
State (4, 3, 1) V = -0.62 Best Action: A3
State (4, 3, 2) V = -0.62 Best Action: A3
State (4, 3, 4) V = -0.62 Best Action: A3
State (4, 4, 1) V = -1000 Best Action: No
Action
State (4, 4, 2) V = -1000 Best Action: No
 State (4, 4, 3) V = -1000 Best Action: No
State (4, 4, 4) V = -1000 Best Action: No
Action
State (4, 5, 1) V = 3.2 Best Action: A4
State (4, 5, 2) V = 3.2 Best Action: A3
State (4, 5, 3) V = 0.14 Best Action: A3
State (4, 5, 4) V = 18.5 Best Action: A1
State (5, 1, 1) V = -0.62 Best Action: A3
State (5, 1, 2) V = -0.62 Best Action: A3
State (5, 1, 3) V = -0.62 Best Action: A3
State (5, 1, 4) V = -0.62 Best Action: A3
State (5, 2, 1) V = -0.62 Best Action: A3
State (5, 2, 2) V = -0.62 Best Action: A3
State (5, 2, 3) V = -0.62 Best Action: A3
State (5, 2, 4) V = -0.62 Best Action: A3
State (5, 3, 1) V = -0.62 Best Action: A3
State (5, 3, 2) V = -0.62 Best Action: A3
State (5, 3, 3) V = -0.62 Best Action: A3
State (5, 3, 4) V = -0.62 Best Action: A3
State (5, 4, 1) V = 18.5 Best Action: A1
State (5, 4, 2) V = 0.14 Best Action: A3
State (5, 4, 3) V = 3.2 Best Action: A4
State (5, 4, 4) V = 3.2 Best Action: A3
 State (5, 5, 1) V = 100 Best Action: No Action
State (5, 5, 3) V = 100

State (5, 5, 3) V = 100

Best Action: No Action

State (5, 5, 3) V = 100

Best Action: No Action

State (5, 5, 4) V = 100

Best Action: No Action
```

Ans F)	State (3, 1, 2) V = -1.68 Best Action: A3	State (5, 2, 2) V = -2.61 Best Action: A3	State (2, 3, 3) V = -100000 Best Action: No	State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 4) V = 2.1 Best Action: A1
Iteration 1:	State (3, 1, 3) V = -2.24 Best Action: A3 State (3, 1, 4) V = -2.12 Best Action: A3	State (5, 2, 3) V = -3.36 Best Action: A4 State (5, 2, 4) V = -2.92 Best Action: A3	Action State (2, 3, 4) V = -100000 Best Action: No	Action State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No Action
State (1, 1, 1) V = -0.67 Best Action: A3 State (1, 1, 2) V = -0.67 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action	State (5, 3, 1) V = -2.57 Best Action: A4 State (5, 3, 2) V = -2.67 Best Action: A3	Action State (2, 4, 1) V = -8.77 Best Action: A1	Action State (4, 5, 1) V = 67.88 Best Action: A4	State (2, 2, 2) V = -100000 Best Action: No Action
State (1, 1, 3) V = -1.19 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 3) V = 15.08 Best Action: A2 State (5, 3, 4) V = -2.93 Best Action: A3	State (2, 4, 2) V = -10.11 Best Action: A4 State (2, 4, 3) V = -6.39 Best Action: A1	State (4, 5, 2) V = -0.25 Best Action: A3 State (4, 5, 3) V = 55.21 Best Action: A4	State (2, 2, 3) V = -100000 Best Action: No Action
State (1, 1, 4) V = -1.19 Best Action: A3 State (1, 2, 1) V = -0.67 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No	State (5, 4, 1) V = 78.8 Best Action: A1	State (2, 4, 4) V = -69.36 Best Action: A3	State (4, 5, 4) V = 79.42 Best Action: A1	State (2, 2, 4) V = -100000 Best Action: No
State (1, 2, 2) V = -0.71 Best Action: A3 State (1, 2, 3) V = -1.19 Best Action: A4	Action State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 2) V = 48.69 Best Action: A3 State (5, 4, 3) V = -1.22 Best Action: A4	State (2, 5, 1) V = -3.86 Best Action: A4 State (2, 5, 2) V = -4.3 Best Action: A3	State (5, 1, 1) V = 14.38 Best Action: A2 State (5, 1, 2) V = 0.42 Best Action: A3	Action State (2, 3, 1) V = -100000 Best Action: No
State (1, 2, 4) V = -1.19 Best Action: A3	Action State (3, 3, 1) V = -1.68 Best Action: A3	State (5, 4, 4) V = 66.56 Best Action: A3 State (5, 5, 1) V = 100 Best Action: No Action	State (2, 5, 3) V = -4.17 Best Action: A4 State (2, 5, 4) V = -4.13 Best Action: A3	State (5, 1, 3) V = 9.09 Best Action: A4 State (5, 1, 4) V = 9.95 Best Action: A3	Action State (2, 3, 2) V = -100000 Best Action: No
State (1, 3, 1) V = -0.67 Best Action: A3 State (1, 3, 2) V = -0.75 Best Action: A3	State (3, 3, 2) V = -1.68 Best Action: A3	State (5, 5, 2) V = 100 Best Action: No Action	State (3, 1, 1) V = -3.86 Best Action: A4	State (5, 2, 1) V = 14.75 Best Action: A1	Action
State (1, 3, 3) V = -1.19 Best Action: A4 State (1, 3, 4) V = -1.19 Best Action: A3	State (3, 3, 3) V = -2.12 Best Action: A3 State (3, 3, 4) V = -2.34 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = -3.86 Best Action: A3 State (3, 1, 3) V = -4.17 Best Action: A3	State (5, 2, 2) V = 0.84 Best Action: A3 State (5, 2, 3) V = 9.45 Best Action: A4	State (2, 3, 3) V = -100000 Best Action: No Action
State (1, 4, 1) V = -0.67 Best Action: A3	State (3, 4, 1) V = -5.38 Best Action: A3 State (3, 4, 2) V = -5.45 Best Action: A4	Iteration 4: State (1, 1, 1) V = -3.22 Best Action: A3	State (3, 1, 4) V = -4.16 Best Action: A3 State (3, 2, 1) V = -100000 Best Action: No	State (5, 2, 4) V = 10.27 Best Action: A3 State (5, 3, 1) V = 28.66 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No Action
State (1, 4, 2) V = -0.75 Best Action: A3 State (1, 4, 3) V = -1.19 Best Action: A4	State (3, 4, 3) V = -4.16 Best Action: A2	State (1, 1, 2) V = -3.22 Best Action: A3	Action	State (5, 3, 2) V = 26.13 Best Action: A4	State (2, 4, 1) V = -10.02 Best Action: A1
State (1, 4, 4) V = -1.19 Best Action: A3 State (1, 5, 1) V = -0.67 Best Action: A3	State (3, 4, 4) V = -68.54 Best Action: A3 State (3, 5, 1) V = 49.69 Best Action: A4	State (1, 1, 3) V = -3.53 Best Action: A3 State (1, 1, 4) V = -3.53 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 3) V = 38.66 Best Action: A2 State (5, 3, 4) V = 23.57 Best Action: A3	State (2, 4, 2) V = -11.37 Best Action: A4 State (2, 4, 3) V = -7.52 Best Action: A1
State (1, 5, 2) V = -0.76 Best Action: A3 State (1, 5, 3) V = -1.19 Best Action: A4	State (3, 5, 2) V = 49.34 Best Action: A3 State (3, 5, 3) V = 37.93 Best Action: A4	State (1, 2, 1) V = -3.25 Best Action: A3 State (1, 2, 2) V = -3.27 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No Action	State (5, 4, 1) V = 79.42 Best Action: A1 State (5, 4, 2) V = 54.69 Best Action: A3	State (2, 4, 4) V = -69.82 Best Action: A3 State (2, 5, 1) V = -5.1 Best Action: A4
State (1, 5, 4) V = -1.19 Best Action: A3	State (3, 5, 4) V = 80.19 Best Action: A2	State (1, 2, 3) V = -3.55 Best Action: A4	State (3, 2, 4) V = -100000 Best Action: No Action	State (5, 4, 3) V = -0.22 Best Action: A4	State (2, 5, 2) V = -5.52 Best Action: A3
State (2, 1, 1) V = -0.67 Best Action: A3 State (2, 1, 2) V = -0.67 Best Action: A3	State (4, 1, 1) V = -8.88 Best Action: A4 State (4, 1, 2) V = -1.68 Best Action: A3	State (1, 2, 4) V = -3.55 Best Action: A3 State (1, 3, 1) V = -3.26 Best Action: A3	State (3, 3, 1) V = 55.62 Best Action: A2	State (5, 4, 4) V = 67.94 Best Action: A3 State (5, 5, 1) V = 100 Best Action: No Action	State (2, 5, 3) V = -5.28 Best Action: A4 State (2, 5, 4) V = -5.26 Best Action: A3
State (2, 1, 3) V = -1.26 Best Action: A3 State (2, 1, 4) V = -1.19 Best Action: A3	State (4, 1, 3) V = -2.67 Best Action: A3 State (4, 1, 4) V = -2.55 Best Action: A4	State (1, 3, 2) V = -3.32 Best Action: A3 State (1, 3, 3) V = -3.56 Best Action: A4	State (3, 3, 2) V = 31.54 Best Action: A4 State (3, 3, 3) V = 45.95 Best Action: A4	State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 3) V = 100 Best Action: No Action	State (3, 1, 1) V = 2.5 Best Action: A4 State (3, 1, 2) V = 2.5 Best Action: A3
State (2, 2, 1) V = -100000 Best Action: No	State (4, 2, 1) V = -68.07 Best Action: A3 State (4, 2, 2) V = -2.96 Best Action: A2	State (1, 3, 4) V = -3.56 Best Action: A3 State (1, 4, 1) V = -4.0 Best Action: A3	State (3, 3, 4) V = 41.62 Best Action: A3 State (3, 4, 1) V = 51.69 Best Action: A1	State (5, 5, 4) V = 100 Best Action: No Action Iteration 7:	State (3, 1, 3) V = 0.78 Best Action: A3 State (3, 1, 4) V = 10.35 Best Action: A2
Action State (2, 2, 2) V = -100000 Best Action: No	State (4, 2, 3) V = -7.46 Best Action: A3	State (1, 4, 2) V = -4.07 Best Action: A4	State (3, 4, 2) V = 23.56 Best Action: A4	State (1, 1, 1) V = -4.7 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No
Action State (2, 2, 3) V = -100000 Best Action: No	State (4, 2, 4) V = -6.81 Best Action: A1 State (4, 3, 1) V = -68.09 Best Action: A4	State (1, 4, 3) V = -4.18 Best Action: A4 State (1, 4, 4) V = -10.65 Best Action: A3	State (3, 4, 3) V = 37.29 Best Action: A4 State (3, 4, 4) V = -23.81 Best Action: A3	State (1, 1, 2) V = -4.69 Best Action: A4 State (1, 1, 3) V = -4.87 Best Action: A3	Action State (3, 2, 2) V = -100000 Best Action: No
Action	State (4, 3, 2) V = -3.74 Best Action: A2 State (4, 3, 3) V = -7.53 Best Action: A1	State (1, 5, 1) V = -3.23 Best Action: A3 State (1, 5, 2) V = -3.37 Best Action: A3	State (3, 5, 1) V = 71.0 Best Action: A4 State (3, 5, 2) V = 65.95 Best Action: A3	State (1, 1, 4) V = -3.45 Best Action: A2 State (1, 2, 1) V = -4.8 Best Action: A3	Action State (3, 2, 3) V = -100000 Best Action: No
State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 4) V = -6.86 Best Action: A1	State (1, 5, 3) V = -3.54 Best Action: A4	State (3, 5, 3) V = 61.59 Best Action: A4	State (1, 2, 2) V = -4.76 Best Action: A3	Action
State (2, 3, 1) V = -100000 Best Action: No Action	State (4, 4, 1) V = -1000 Best Action: No Action	State (1, 5, 4) V = -3.54 Best Action: A3 State (2, 1, 1) V = -3.25 Best Action: A4	State (3, 5, 4) V = 83.2 Best Action: A2 State (4, 1, 1) V = -11.97 Best Action: A4	State (1, 2, 3) V = -4.93 Best Action: A3 State (1, 2, 4) V = -4.93 Best Action: A4	State (3, 2, 4) V = -100000 Best Action: No Action
State (2, 3, 2) V = -100000 Best Action: No Action	State (4, 4, 2) V = -1000 Best Action: No Action	State (2, 1, 2) V = -3.25 Best Action: A3 State (2, 1, 3) V = -3.59 Best Action: A3	State (4, 1, 2) V = -4.69 Best Action: A3 State (4, 1, 3) V = -5.26 Best Action: A3	State (1, 3, 1) V = -4.82 Best Action: A3 State (1, 3, 2) V = -4.81 Best Action: A3	State (3, 3, 1) V = 58.81 Best Action: A2 State (3, 3, 2) V = 42.97 Best Action: A4
State (2, 3, 3) V = -100000 Best Action: No	State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 4) V = -3.6 Best Action: A3	State (4, 1, 4) V = -5.21 Best Action: A1	State (1, 3, 3) V = -4.97 Best Action: A3	State (3, 3, 3) V = 50.23 Best Action: A4
Action State (2, 3, 4) V = -100000 Best Action: No	Action State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No Action	State (4, 2, 1) V = -70.91 Best Action: A4 State (4, 2, 2) V = -6.21 Best Action: A1	State (1, 3, 4) V = -4.97 Best Action: A4 State (1, 4, 1) V = -5.76 Best Action: A3	State (3, 3, 4) V = 46.89 Best Action: A3 State (3, 4, 1) V = 54.53 Best Action: A1
Action	Action State (4, 5, 1) V = 47.14 Best Action: A4	State (2, 2, 2) V = -100000 Best Action: No Action	State (4, 2, 3) V = -10.59 Best Action: A3 State (4, 2, 4) V = -9.12 Best Action: A1	State (1, 4, 2) V = -5.75 Best Action: A4 State (1, 4, 3) V = -5.8 Best Action: A3	State (3, 4, 2) V = 32.53 Best Action: A1 State (3, 4, 3) V = 39.73 Best Action: A4
State (2, 4, 1) V = -0.67 Best Action: A3 State (2, 4, 2) V = -0.67 Best Action: A3	State (4, 5, 2) V = -16.42 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No	State (4, 3, 1) V = -46.82 Best Action: A3	State (1, 4, 4) V = -10.62 Best Action: A4	State (3, 4, 4) V = -20.71 Best Action: A3
State (2, 4, 3) V = -1.26 Best Action: A3 State (2, 4, 4) V = -61.19 Best Action: A3	State (4, 5, 3) V = 34.27 Best Action: A4 State (4, 5, 4) V = 76.46 Best Action: A1	Action State (2, 2, 4) V = -100000 Best Action: No	State (4, 3, 2) V = 16.0 Best Action: A4 State (4, 3, 3) V = 31.28 Best Action: A1	State (1, 5, 1) V = -4.72 Best Action: A3 State (1, 5, 2) V = -4.83 Best Action: A3	State (3, 5, 1) V = 71.68 Best Action: A4 State (3, 5, 2) V = 67.61 Best Action: A3
State (2, 5, 1) V = -0.67 Best Action: A3	State (5, 1, 1) V = -1.68 Best Action: A4 State (5, 1, 2) V = -1.68 Best Action: A3	Action State (2, 3, 1) V = -100000 Best Action: No	State (4, 3, 4) V = 8.39 Best Action: A4 State (4, 4, 1) V = -1000 Best Action: No	State (1, 5, 3) V = -4.9 Best Action: A4 State (1, 5, 4) V = -4.9 Best Action: A3	State (3, 5, 3) V = 62.49 Best Action: A4 State (3, 5, 4) V = 83.36 Best Action: A2
State (2, 5, 2) V = -0.71 Best Action: A3 State (2, 5, 3) V = -1.26 Best Action: A4	State (5, 1, 3) V = -2.27 Best Action: A3	Action	Action	State (2, 1, 1) V = -4.77 Best Action: A3	State (4, 1, 1) V = -3.56 Best Action: A4
State (2, 5, 4) V = -1.19 Best Action: A3 State (3, 1, 1) V = -0.67 Best Action: A3	State (5, 1, 4) V = -2.12 Best Action: A3 State (5, 2, 1) V = -1.69 Best Action: A4	State (2, 3, 2) V = -100000 Best Action: No Action	State (4, 4, 2) V = -1000 Best Action: No Action	State (2, 1, 2) V = -4.77 Best Action: A4 State (2, 1, 3) V = -4.95 Best Action: A3	State (4, 1, 2) V = 2.42 Best Action: A3 State (4, 1, 3) V = 0.67 Best Action: A3
State (3, 1, 2) V = -0.67 Best Action: A3	State (5, 2, 2) V = -1.76 Best Action: A3	State (2, 3, 3) V = -100000 Best Action: No Action	State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 4) V = -2.89 Best Action: A1	State (4, 1, 4) V = 10.35 Best Action: A1 State (4, 2, 1) V = -62.48 Best Action: A4
State (3, 1, 3) V = -1.34 Best Action: A3 State (3, 1, 4) V = -1.19 Best Action: A3	State (5, 2, 3) V = -2.53 Best Action: A4 State (5, 2, 4) V = -2.13 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No	Action State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No Action	State (4, 2, 2) V = -0.37 Best Action: A3
State (3, 2, 1) V = -100000 Best Action: No Action	State (5, 3, 1) V = -1.7 Best Action: A4 State (5, 3, 2) V = -1.82 Best Action: A3	Action State (2, 4, 1) V = -8.18 Best Action: A1	Action State (4, 5, 1) V = 67.55 Best Action: A4	State (2, 2, 2) V = -100000 Best Action: No Action	State (4, 2, 3) V = -5.81 Best Action: A3 State (4, 2, 4) V = 6.7 Best Action: A1
State (3, 2, 2) V = -100000 Best Action: No	State (5, 3, 3) V = -2.58 Best Action: A4	State (2, 4, 2) V = -9.33 Best Action: A4	State (4, 5, 2) V = -0.5 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No	State (4, 3, 1) V = -36.15 Best Action: A3
Action State (3, 2, 3) V = -100000 Best Action: No	State (5, 3, 4) V = -2.14 Best Action: A3 State (5, 4, 1) V = 77.25 Best Action: A1	State (2, 4, 3) V = -5.75 Best Action: A1 State (2, 4, 4) V = -69.75 Best Action: A3	State (4, 5, 3) V = 54.85 Best Action: A4 State (4, 5, 4) V = 79.38 Best Action: A1	Action State (2, 2, 4) V = -100000 Best Action: No	State (4, 3, 2) V = 26.22 Best Action: A4 State (4, 3, 3) V = 36.31 Best Action: A1
Action State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 2) V = 34.75 Best Action: A3 State (5, 4, 3) V = -3.55 Best Action: A4	State (2, 5, 1) V = -3.26 Best Action: A4 State (2, 5, 2) V = -3.69 Best Action: A3	State (5, 1, 1) V = 4.6 Best Action: A2 State (5, 1, 2) V = -3.82 Best Action: A3	Action State (2, 3, 1) V = -100000 Best Action: No	State (4, 3, 4) V = 18.68 Best Action: A4 State (4, 4, 1) V = -1000 Best Action: No
Action	State (5, 4, 4) V = 63.05 Best Action: A3	State (2, 5, 3) V = -3.63 Best Action: A4	State (5, 1, 3) V = 1.85 Best Action: A4	Action	Action
State (3, 3, 1) V = -0.67 Best Action: A3 State (3, 3, 2) V = -0.67 Best Action: A3	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action	State (2, 5, 4) V = -3.59 Best Action: A3 State (3, 1, 1) V = -3.25 Best Action: A4	State (5, 1, 4) V = 1.99 Best Action: A3 State (5, 2, 1) V = 4.94 Best Action: A1	State (2, 3, 2) V = -100000 Best Action: No Action	State (4, 4, 2) V = -1000 Best Action: No Action
State (3, 3, 3) V = -1.19 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = -3.25 Best Action: A3 State (3, 1, 3) V = -3.63 Best Action: A3	State (5, 2, 2) V = -3.91 Best Action: A3 State (5, 2, 3) V = 1.78 Best Action: A4	State (2, 3, 3) V = -100000 Best Action: No Action	State (4, 4, 3) V = -1000 Best Action: No Action
State (3, 3, 4) V = -1.19 Best Action: A3 State (3, 4, 1) V = -0.67 Best Action: A3	Iteration 3:	State (3, 1, 4) V = -3.59 Best Action: A3	State (5, 2, 4) V = 2.23 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No	State (4, 4, 4) V = -1000 Best Action: No
State (3, 4, 2) V = -0.71 Best Action: A3 State (3, 4, 3) V = -1.34 Best Action: A4	State (1, 1, 1) V = -2.52 Best Action: A3 State (1, 1, 2) V = -2.52 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action	State (5, 3, 1) V = 21.69 Best Action: A3 State (5, 3, 2) V = 20.06 Best Action: A4	Action State (2, 4, 1) V = -9.66 Best Action: A1	Action State (4, 5, 1) V = 68.0 Best Action: A4
State (3, 4, 4) V = -61.19 Best Action: A3	State (1, 1, 3) V = -2.89 Best Action: A3 State (1, 1, 4) V = -2.89 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 3) V = 35.7 Best Action: A2 State (5, 3, 4) V = 16.94 Best Action: A3	State (2, 4, 2) V = -11.05 Best Action: A4 State (2, 4, 3) V = -7.23 Best Action: A1	State (4, 5, 2) V = -0.17 Best Action: A3 State (4, 5, 3) V = 55.35 Best Action: A4
State (3, 5, 1) V = -0.67 Best Action: A3 State (3, 5, 2) V = -0.75 Best Action: A3	State (1, 2, 1) V = -2.52 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No	State (5, 4, 1) V = 79.38 Best Action: A1	State (2, 4, 4) V = -69.59 Best Action: A3	State (4, 5, 4) V = 79.44 Best Action: A1
State (3, 5, 3) V = -1.19 Best Action: A4 State (3, 5, 4) V = 70.15 Best Action: A2	State (1, 2, 2) V = -2.58 Best Action: A3 State (1, 2, 3) V = -2.89 Best Action: A4	Action State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 2) V = 54.31 Best Action: A3 State (5, 4, 3) V = -0.28 Best Action: A4	State (2, 5, 1) V = -4.76 Best Action: A4 State (2, 5, 2) V = -5.19 Best Action: A3	State (5, 1, 1) V = 24.39 Best Action: A2 State (5, 1, 2) V = 12.57 Best Action: A3
State (4, 1, 1) V = -0.67 Best Action: A3	State (1, 2, 4) V = -2.89 Best Action: A3 State (1, 3, 1) V = -2.53 Best Action: A3	Action State (3, 3, 1) V = 49.78 Best Action: A2	State (5, 4, 4) V = 67.85 Best Action: A3 State (5, 5, 1) V = 100 Best Action: No Action	State (2, 5, 3) V = -4.98 Best Action: A4 State (2, 5, 4) V = -4.95 Best Action: A3	State (5, 1, 3) V = 17.74 Best Action: A4 State (5, 1, 4) V = 19.57 Best Action: A3
State (4, 1, 2) V = -0.67 Best Action: A3 State (4, 1, 3) V = -1.35 Best Action: A3	State (1, 3, 2) V = -2.63 Best Action: A3	State (3, 3, 2) V = 16.94 Best Action: A4	State (5, 5, 2) V = 100 Best Action: No Action	State (3, 1, 1) V = -2.31 Best Action: A4	State (5, 2, 1) V = 24.82 Best Action: A1
State (4, 1, 4) V = -1.19 Best Action: A3 State (4, 2, 1) V = -60.67 Best Action: A3	State (1, 3, 3) V = -2.9 Best Action: A4 State (1, 3, 4) V = -2.9 Best Action: A3	State (3, 3, 3) V = 38.95 Best Action: A4 State (3, 3, 4) V = 35.54 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = -2.31 Best Action: A3 State (3, 1, 3) V = -3.06 Best Action: A3	State (5, 2, 2) V = 13.25 Best Action: A3 State (5, 2, 3) V = 18.56 Best Action: A4
State (4, 2, 2) V = -0.71 Best Action: A3	State (1, 4, 1) V = -2.96 Best Action: A3 State (1, 4, 2) V = -3.07 Best Action: A4	State (3, 4, 1) V = 45.96 Best Action: A1 State (3, 4, 2) V = 11.46 Best Action: A4	Iteration 6: State (1, 1, 1) V = -4.3 Best Action: A3	State (3, 1, 4) V = 5.04 Best Action: A2 State (3, 2, 1) V = -100000 Best Action: No	State (5, 2, 4) V = 19.96 Best Action: A3 State (5, 3, 1) V = 33.54 Best Action: A3
State (4, 2, 3) V = -4.82 Best Action: A3 State (4, 2, 4) V = -4.82 Best Action: A4	State (1, 4, 3) V = -3.24 Best Action: A4	State (3, 4, 3) V = 32.52 Best Action: A4	State (1, 1, 2) V = -4.29 Best Action: A4	Action	State (5, 3, 2) V = 31.24 Best Action: A4
State (4, 3, 1) V = -60.67 Best Action: A3 State (4, 3, 2) V = -0.75 Best Action: A3	State (1, 4, 4) V = -11.2 Best Action: A3 State (1, 5, 1) V = -2.53 Best Action: A3	State (3, 4, 4) V = -29.52 Best Action: A3 State (3, 5, 1) V = 69.66 Best Action: A4	State (1, 1, 3) V = -4.5 Best Action: A3 State (1, 1, 4) V = -4.51 Best Action: A4	State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 3) V = 40.46 Best Action: A2 State (5, 3, 4) V = 28.59 Best Action: A3
State (4, 3, 3) V = -4.92 Best Action: A3	State (1, 5, 2) V = -2.67 Best Action: A3	State (3, 5, 2) V = 63.53 Best Action: A3	State (1, 2, 1) V = -4.38 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No Action	State (5, 4, 1) V = 79.43 Best Action: A1
State (4, 3, 4) V = -4.85 Best Action: A4 State (4, 4, 1) V = -1000 Best Action: No	State (1, 5, 3) V = -2.9 Best Action: A4 State (1, 5, 4) V = -2.9 Best Action: A3	State (3, 5, 3) V = 59.83 Best Action: A4 State (3, 5, 4) V = 82.94 Best Action: A2	State (1, 2, 2) V = -4.35 Best Action: A3 State (1, 2, 3) V = -4.55 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 2) V = 54.83 Best Action: A3 State (5, 4, 3) V = -0.2 Best Action: A4
Action State (4, 4, 2) V = -1000 Best Action: No	State (2, 1, 1) V = -2.53 Best Action: A4 State (2, 1, 2) V = -2.53 Best Action: A3	State (4, 1, 1) V = -11.94 Best Action: A4 State (4, 1, 2) V = -3.87 Best Action: A3	State (1, 2, 4) V = -4.55 Best Action: A4 State (1, 3, 1) V = -4.39 Best Action: A3	Action State (3, 3, 1) V = 58.5 Best Action: A2	State (5, 4, 4) V = 67.97 Best Action: A3 State (5, 5, 1) V = 100 Best Action: No Actio
Action	State (2, 1, 3) V = -2.94 Best Action: A3	State (4, 1, 3) V = -4.6 Best Action: A3	State (1, 3, 2) V = -4.4 Best Action: A3	State (3, 3, 2) V = 41.74 Best Action: A4	State (5, 5, 2) V = 100 Best Action: No Actio
State (4, 4, 3) V = -1000 Best Action: No Action	State (2, 1, 4) V = -2.92 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No	State (4, 1, 4) V = -4.56 Best Action: A4 State (4, 2, 1) V = -71.05 Best Action: A4	State (1, 3, 3) V = -4.59 Best Action: A3 State (1, 3, 4) V = -4.59 Best Action: A3	State (3, 3, 3) V = 49.8 Best Action: A4 State (3, 3, 4) V = 46.21 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Actio State (5, 5, 4) V = 100 Best Action: No Actio
State (4, 4, 4) V = -1000 Best Action: No Action	Action State (2, 2, 2) V = -100000 Best Action: No	State (4, 2, 2) V = -5.46 Best Action: A1 State (4, 2, 3) V = -9.94 Best Action: A3	State (1, 4, 1) V = -5.31 Best Action: A3 State (1, 4, 2) V = -5.33 Best Action: A4	State (3, 4, 1) V = 54.29 Best Action: A1 State (3, 4, 2) V = 31.4 Best Action: A1	Iteration 9: State (1, 1, 1) V = -0.68 Best Action: A4
State (4, 5, 1) V = -0.67 Best Action: A3	Action	State (4, 2, 4) V = -8.56 Best Action: A1	State (1, 4, 3) V = -5.4 Best Action: A4	State (3, 4, 3) V = 39.52 Best Action: A4	State (1, 1, 2) V = -0.54 Best Action: A3
State (4, 5, 2) V = -60.67 Best Action: A3 State (4, 5, 3) V = -4.86 Best Action: A4	State (2, 2, 3) V = -100000 Best Action: No Action	State (4, 3, 1) V = -58.0 Best Action: A3 State (4, 3, 2) V = 5.65 Best Action: A4	State (1, 4, 4) V = -10.4 Best Action: A3 State (1, 5, 1) V = -4.31 Best Action: A3	State (3, 4, 4) V = -21.0 Best Action: A3 State (3, 5, 1) V = 71.61 Best Action: A4	State (1, 1, 3) V = -1.62 Best Action: A3 State (1, 1, 4) V = 5.74 Best Action: A2
State (4, 5, 4) V = 66.92 Best Action: A1 State (5, 1, 1) V = -0.67 Best Action: A3	State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 3) V = 24.12 Best Action: A1 State (4, 3, 4) V = -0.73 Best Action: A4	State (1, 5, 2) V = -4.43 Best Action: A3 State (1, 5, 3) V = -4.53 Best Action: A4	State (3, 5, 2) V = 67.43 Best Action: A3 State (3, 5, 3) V = 62.4 Best Action: A4	State (1, 2, 1) V = -5.4 Best Action: A3 State (1, 2, 2) V = -2.72 Best Action: A1
State (5, 1, 2) V = -0.67 Best Action: A3	State (2, 3, 1) V = -100000 Best Action: No	State (4, 4, 1) V = -1000 Best Action: No	State (1, 5, 4) V = -4.53 Best Action: A3	State (3, 5, 4) V = 83.34 Best Action: A2	State (1, 2, 3) V = -3.57 Best Action: A3
State (5, 1, 3) V = -1.35 Best Action: A3 State (5, 1, 4) V = -1.19 Best Action: A3	Action State (2, 3, 2) V = -100000 Best Action: No	Action State (4, 4, 2) V = -1000 Best Action: No	State (2, 1, 1) V = -4.36 Best Action: A3 State (2, 1, 2) V = -4.36 Best Action: A4	State (4, 1, 1) V = -8.62 Best Action: A4 State (4, 1, 2) V = -2.59 Best Action: A3	State (1, 2, 4) V = -3.57 Best Action: A4 State (1, 3, 1) V = -5.42 Best Action: A3
State (5, 2, 1) V = -0.67 Best Action: A3 State (5, 2, 2) V = -0.71 Best Action: A3	Action State (2, 3, 3) V = -100000 Best Action: No	Action State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 3) V = -4.59 Best Action: A3 State (2, 1, 4) V = -4.63 Best Action: A3	State (4, 1, 3) V = -3.53 Best Action: A3 State (4, 1, 4) V = 5.01 Best Action: A1	State (1, 3, 2) V = -2.95 Best Action: A2 State (1, 3, 3) V = -3.74 Best Action: A3
State (5, 2, 3) V = -1.48 Best Action: A4	Action	Action	State (2, 2, 1) V = -100000 Best Action: No	State (4, 2, 1) V = -67.35 Best Action: A4	State (1, 3, 4) V = -3.74 Best Action: A4
State (5, 2, 4) V = -1.19 Best Action: A3 State (5, 3, 1) V = -0.67 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No Action	State (4, 4, 4) V = -1000 Best Action: No Action	Action State (2, 2, 2) V = -100000 Best Action: No	State (4, 2, 2) V = -4.63 Best Action: A1 State (4, 2, 3) V = -9.37 Best Action: A3	State (1, 4, 1) V = -6.39 Best Action: A3 State (1, 4, 2) V = -4.7 Best Action: A1
State (5, 3, 2) V = -0.75 Best Action: A3 State (5, 3, 3) V = -1.56 Best Action: A4	State (2, 4, 1) V = -7.25 Best Action: A1 State (2, 4, 2) V = -7.89 Best Action: A4	State (4, 5, 1) V = 66.35 Best Action: A4 State (4, 5, 2) V = -1.37 Best Action: A3	Action State (2, 2, 3) V = -100000 Best Action: No	State (4, 2, 4) V = 1.38 Best Action: A1 State (4, 3, 1) V = -37.46 Best Action: A3	State (1, 4, 3) V = -5.17 Best Action: A3 State (1, 4, 4) V = -9.87 Best Action: A4
State (5, 3, 4) V = -1.19 Best Action: A3	State (2, 4, 3) V = -4.85 Best Action: A1	State (4, 5, 3) V = 53.56 Best Action: A4	Action	State (4, 3, 2) V = 24.53 Best Action: A4	State (1, 5, 1) V = -5.34 Best Action: A3
State (5, 4, 1) V = 70.6 Best Action: A1 State (5, 4, 2) V = -0.67 Best Action: A3	State (2, 4, 4) V = -70.47 Best Action: A3 State (2, 5, 1) V = -2.54 Best Action: A4	State (4, 5, 4) V = 79.22 Best Action: A1 State (5, 1, 1) V = -3.24 Best Action: A4	State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 3) V = 35.75 Best Action: A1 State (4, 3, 4) V = 17.0 Best Action: A4	State (1, 5, 2) V = -4.8 Best Action: A2 State (1, 5, 3) V = -5.07 Best Action: A3
State (5, 4, 3) V = -9.87 Best Action: A4	State (2, 5, 2) V = -2.93 Best Action: A3 State (2, 5, 3) V = -2.98 Best Action: A4	State (5, 1, 2) V = -3.23 Best Action: A3 State (5, 1, 3) V = -3.68 Best Action: A3	State (2, 3, 1) V = -100000 Best Action: No Action	State (4, 4, 1) V = -1000 Best Action: No Action	State (1, 5, 4) V = -5.07 Best Action: A4 State (2, 1, 1) V = 0.17 Best Action: A4
State (5, 4, 4) V = 50.13 Best Action: A3 State (5, 5, 1) V = 100 Best Action: No Action	State (2, 5, 4) V = -2.93 Best Action: A3	State (5, 1, 4) V = -3.53 Best Action: A4	State (2, 3, 2) V = -100000 Best Action: No	State (4, 4, 2) V = -1000 Best Action: No	State (2, 1, 2) V = 0.17 Best Action: A3
State (5, 5, 2) V = 100 Best Action: No Action State (5, 5, 3) V = 100 Best Action: No Action	State (3, 1, 1) V = -2.53 Best Action: A4 State (3, 1, 2) V = -2.53 Best Action: A3	State (5, 2, 1) V = -3.28 Best Action: A4 State (5, 2, 2) V = -3.32 Best Action: A3	Action State (2, 3, 3) V = -100000 Best Action: No	Action State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 3) V = -0.87 Best Action: A3 State (2, 1, 4) V = 6.69 Best Action: A1
State (5, 5, 4) V = 100 Best Action: No Action Iteration 2:	State (3, 1, 3) V = -2.99 Best Action: A3 State (3, 1, 4) V = -2.92 Best Action: A3	State (5, 2, 3) V = -4.03 Best Action: A4 State (5, 2, 4) V = -3.58 Best Action: A3	Action State (2, 3, 4) V = -100000 Best Action: No	Action State (4, 4, 4) V = -1000 Best Action: No	State (2, 2, 1) V = -100000 Best Action: No Action
State (1, 1, 1) V = -1.68 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action	State (5, 3, 1) V = 9.71 Best Action: A3	Action	Action	State (2, 2, 2) V = -100000 Best Action: No Action
State (1, 1, 2) V = -1.68 Best Action: A3 State (1, 1, 3) V = -2.12 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No	State (5, 3, 2) V = 9.62 Best Action: A4 State (5, 3, 3) V = 28.88 Best Action: A2	State (2, 4, 1) V = -9.25 Best Action: A1 State (2, 4, 2) V = -10.64 Best Action: A4	State (4, 5, 1) V = 67.97 Best Action: A4 State (4, 5, 2) V = -0.19 Best Action: A3	State (2, 2, 3) V = -100000 Best Action: No
State (1, 1, 4) V = -2.12 Best Action: A3 State (1, 2, 1) V = -1.68 Best Action: A3	Action State (3, 2, 3) V = -100000 Best Action: No	State (5, 3, 4) V = 6.55 Best Action: A3 State (5, 4, 1) V = 79.25 Best Action: A1	State (2, 4, 3) V = -6.86 Best Action: A1 State (2, 4, 4) V = -69.39 Best Action: A3	State (4, 5, 3) V = 55.32 Best Action: A4 State (4, 5, 4) V = 79.43 Best Action: A1	Action State (2, 2, 4) V = -100000 Best Action: No
State (1, 2, 2) V = -1.74 Best Action: A3	Action	State (5, 4, 2) V = 53.03 Best Action: A3	State (2, 5, 1) V = -4.35 Best Action: A4 State (2, 5, 2) V = -4.79 Best Action: A3	State (5, 1, 1) V = 20.9 Best Action: A2 State (5, 1, 2) V = 7.09 Best Action: A2	Action
State (1, 2, 3) V = -2.12 Best Action: A4 State (1, 2, 4) V = -2.12 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No Action	State (5, 4, 3) V = -0.5 Best Action: A4 State (5, 4, 4) V = 67.56 Best Action: A3	State (2, 5, 3) V = -4.61 Best Action: A4	State (5, 1, 3) V = 14.41 Best Action: A4	State (2, 3, 1) V = -100000 Best Action: No Action
State (1, 3, 1) V = -1.68 Best Action: A3 State (1, 3, 2) V = -1.8 Best Action: A3	State (3, 3, 1) V = 33.42 Best Action: A2 State (3, 3, 2) V = -2.54 Best Action: A4	State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action	State (2, 5, 4) V = -4.58 Best Action: A3 State (3, 1, 1) V = -4.38 Best Action: A3	State (5, 1, 4) V = 16.0 Best Action: A3 State (5, 2, 1) V = 21.3 Best Action: A1	State (2, 3, 2) V = -100000 Best Action: No Action
State (1, 3, 3) V = -2.13 Best Action: A4 State (1, 3, 4) V = -2.13 Best Action: A4	State (3, 3, 3) V = 22.99 Best Action: A4 State (3, 3, 4) V = 22.7 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = -4.38 Best Action: A3 State (3, 1, 3) V = -4.63 Best Action: A3	State (5, 2, 2) V = 7.77 Best Action: A3 State (5, 2, 3) V = 15.14 Best Action: A4	State (2, 3, 3) V = -100000 Best Action: No Action
State (1, 4, 1) V = -2.13 Best Action: A3 State (1, 4, 1) V = -1.68 Best Action: A3	State (3, 4, 1) V = 29.69 Best Action: A1	Iteration 5:	State (3, 1, 4) V = -1.17 Best Action: A2	State (5, 2, 4) V = 16.37 Best Action: A3	State (2, 3, 4) V = -100000 Best Action: No
State (1, 4, 2) V = -1.81 Best Action: A3 State (1, 4, 3) V = -2.13 Best Action: A4	State (3, 4, 2) V = -7.92 Best Action: A1 State (3, 4, 3) V = 19.75 Best Action: A4	State (1, 1, 1) V = -3.81 Best Action: A3 State (1, 1, 2) V = -3.81 Best Action: A3	State (3, 2, 1) V = -100000 Best Action: No Action	State (5, 3, 1) V = 32.02 Best Action: A3 State (5, 3, 2) V = 29.47 Best Action: A4	Action State (2, 4, 1) V = -10.31 Best Action: A1
State (1, 4, 4) V = -9.33 Best Action: A3	State (3, 4, 4) V = -43.88 Best Action: A3 State (3, 5, 1) V = 65.31 Best Action: A4	State (1, 1, 3) V = -4.06 Best Action: A3 State (1, 1, 4) V = -4.07 Best Action: A3	State (3, 2, 2) V = -100000 Best Action: No Action	State (5, 3, 3) V = 39.92 Best Action: A2 State (5, 3, 4) V = 26.98 Best Action: A3	State (2, 4, 2) V = -11.63 Best Action: A4 State (2, 4, 3) V = -6.89 Best Action: A1
State (1, 5, 2) V = -1.81 Best Action: A3	State (3, 5, 2) V = 58.72 Best Action: A3	State (1, 2, 1) V = -3.87 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No	State (5, 4, 1) V = 79.43 Best Action: A1	State (2, 4, 4) V = -70.03 Best Action: A3
State (1, 5, 3) V = -2.13 Best Action: A4 State (1, 5, 4) V = -2.13 Best Action: A3	State (3, 5, 3) V = 54.43 Best Action: A4 State (3, 5, 4) V = 82.26 Best Action: A2	State (1, 2, 2) V = -3.86 Best Action: A3 State (1, 2, 3) V = -4.1 Best Action: A3	Action State (3, 2, 4) V = -100000 Best Action: No	State (5, 4, 2) V = 54.8 Best Action: A3 State (5, 4, 3) V = -0.2 Best Action: A4	State (2, 5, 1) V = -5.38 Best Action: A4 State (2, 5, 2) V = -5.8 Best Action: A3
State (2, 1, 1) V = -1.68 Best Action: A4 State (2, 1, 2) V = -1.68 Best Action: A3	State (4, 1, 1) V = -10.83 Best Action: A4 State (4, 1, 2) V = -2.86 Best Action: A3	State (1, 2, 4) V = -4.1 Best Action: A4 State (1, 3, 1) V = -3.88 Best Action: A3	Action State (3, 3, 1) V = 57.71 Best Action: A2	State (5, 4, 4) V = 67.96 Best Action: A3 State (5, 5, 1) V = 100 Best Action: No Action	State (2, 5, 3) V = -5.51 Best Action: A4 State (2, 5, 4) V = -5.52 Best Action: A3
State (2, 1, 3) V = -2.18 Best Action: A3	State (4, 1, 3) V = -3.73 Best Action: A3	State (1, 3, 2) V = -3.9 Best Action: A3	State (3, 3, 2) V = 38.7 Best Action: A4	State (5, 5, 2) V = 100 Best Action: No Action	State (3, 1, 1) V = 7.13 Best Action: A4
State (2, 1, 4) V = -2.12 Best Action: A3 State (2, 2, 1) V = -100000 Best Action: No	State (4, 1, 4) V = -3.66 Best Action: A4 State (4, 2, 1) V = -70.1 Best Action: A4	State (1, 3, 3) V = -4.12 Best Action: A4 State (1, 3, 4) V = -4.12 Best Action: A3	State (3, 3, 3) V = 48.72 Best Action: A4 State (3, 3, 4) V = 44.73 Best Action: A3	State (5, 5, 3) V = 100 Best Action: No Action State (5, 5, 4) V = 100 Best Action: No Action	State (3, 1, 2) V = 7.13 Best Action: A3 State (3, 1, 3) V = 4.75 Best Action: A3
Action State (2, 2, 2) V = -100000 Best Action: No	State (4, 2, 2) V = -4.49 Best Action: A1 State (4, 2, 3) V = -9.0 Best Action: A3	State (1, 4, 1) V = -4.75 Best Action: A3 State (1, 4, 2) V = -4.78 Best Action: A4	State (3, 4, 1) V = 53.63 Best Action: A1 State (3, 4, 2) V = 28.69 Best Action: A1	Iteration 8: State (1, 1, 1) V = -4.02 Best Action: A4	State (3, 1, 4) V = 13.8 Best Action: A2 State (3, 2, 1) V = -100000 Best Action: No
Action	State (4, 2, 4) V = -7.82 Best Action: A1	State (1, 4, 3) V = -4.88 Best Action: A4	State (3, 4, 3) V = 38.93 Best Action: A4	State (1, 1, 2) V = -4.01 Best Action: A3	Action
State (2, 2, 3) V = -100000 Best Action: No Action	State (4, 3, 1) V = -70.14 Best Action: A4 State (4, 3, 2) V = -4.96 Best Action: A2	State (1, 4, 4) V = -10.33 Best Action: A3 State (1, 5, 1) V = -3.82 Best Action: A3	State (3, 4, 4) V = -21.76 Best Action: A3 State (3, 5, 1) V = 71.45 Best Action: A4	State (1, 1, 3) V = -4.38 Best Action: A3 State (1, 1, 4) V = 1.21 Best Action: A2	State (3, 2, 2) V = -100000 Best Action: No Action
State (2, 2, 4) V = -100000 Best Action: No	State (4, 3, 3) V = 10.2 Best Action: A1 State (4, 3, 4) V = -7.86 Best Action: A1	State (1, 5, 2) V = -3.95 Best Action: A3 State (1, 5, 3) V = -4.08 Best Action: A4	State (3, 5, 2) V = 66.98 Best Action: A3 State (3, 5, 3) V = 62.19 Best Action: A4	State (1, 2, 1) V = -5.15 Best Action: A3 State (1, 2, 2) V = -5.04 Best Action: A3	State (3, 2, 3) V = -100000 Best Action: No Action
Action State (2, 3, 1) V = -100000 Best Action: No	State (4, 4, 1) V = -1000 Best Action: No	State (1, 5, 4) V = -4.08 Best Action: A3	State (3, 5, 4) V = 83.3 Best Action: A2	State (1, 2, 3) V = -5.2 Best Action: A3	State (3, 2, 4) V = -100000 Best Action: No
Action State (2, 3, 2) V = -100000 Best Action: No	Action State (4, 4, 2) V = -1000 Best Action: No	State (2, 1, 1) V = -3.86 Best Action: A3 State (2, 1, 2) V = -3.86 Best Action: A3	State (4, 1, 1) V = -11.8 Best Action: A4 State (4, 1, 2) V = -5.3 Best Action: A3	State (1, 2, 4) V = -5.2 Best Action: A4 State (1, 3, 1) V = -5.17 Best Action: A3	Action State (3, 3, 1) V = 58.94 Best Action: A2
Action	Action State (4, 4, 3) V = -1000 Best Action: No	State (2, 1, 3) V = -4.14 Best Action: A3 State (2, 1, 4) V = -4.17 Best Action: A3	State (4, 1, 3) V = -5.74 Best Action: A3 State (4, 1, 4) V = -1.31 Best Action: A1	State (1, 3, 2) V = -5.09 Best Action: A3 State (1, 3, 3) V = -5.24 Best Action: A3	State (3, 3, 2) V = 43.47 Best Action: A4 State (3, 3, 3) V = 50.41 Best Action: A4
State (2, 3, 3) V = -100000 Best Action: No Action	Action	State (2, 2, 1) V = -100000 Best Action: No	State (4, 2, 1) V = -70.68 Best Action: A4	State (1, 3, 4) V = -5.24 Best Action: A4	State (3, 3, 4) V = 47.21 Best Action: A3
State (2, 3, 4) V = -100000 Best Action: No Action	State (4, 4, 4) V = -1000 Best Action: No Action	Action State (2, 2, 2) V = -100000 Best Action: No	State (4, 2, 2) V = -6.77 Best Action: A1 State (4, 2, 3) V = -11.05 Best Action: A3	State (1, 4, 1) V = -6.11 Best Action: A3 State (1, 4, 2) V = -6.09 Best Action: A4	State (3, 4, 1) V = 54.62 Best Action: A1 State (3, 4, 2) V = 32.99 Best Action: A1
State (2, 4, 1) V = -5.33 Best Action: A3	State (4, 5, 1) V = 62.1 Best Action: A4 State (4, 5, 2) V = -4.54 Best Action: A3	Action State (2, 2, 3) V = -100000 Best Action: No	State (4, 2, 4) V = -4.99 Best Action: A1 State (4, 3, 1) V = -40.45 Best Action: A3	State (1, 4, 4) V = -6.11 Best Action: A3 State (1, 4, 4) V = -10.85 Best Action: A4	State (3, 4, 3) V = 39.92 Best Action: A4 State (3, 4, 4) V = -20.6 Best Action: A3
State (2, 4, 2) V = -5.33 Best Action: A4 State (2, 4, 3) V = -3.44 Best Action: A2	State (4, 5, 3) V = 49.09 Best Action: A4	Action	State (4, 3, 2) V = 21.63 Best Action: A4	State (1, 5, 1) V = -5.06 Best Action: A3	State (3, 5, 1) V = 71.7 Best Action: A4
State (2, 4, 4) V = -68.5 Best Action: A3 State (2, 5, 1) V = -1.68 Best Action: A4	State (4, 5, 4) V = 78.64 Best Action: A1 State (5, 1, 1) V = -2.53 Best Action: A4	State (2, 2, 4) V = -100000 Best Action: No Action	State (4, 3, 3) V = 34.43 Best Action: A1 State (4, 3, 4) V = 14.0 Best Action: A4	State (1, 5, 2) V = -5.16 Best Action: A3 State (1, 5, 3) V = -5.21 Best Action: A4	State (3, 5, 2) V = 67.69 Best Action: A3 State (3, 5, 3) V = 62.52 Best Action: A4
State (2, 5, 2) V = -1.96 Best Action: A3	State (5, 1, 2) V = -2.53 Best Action: A3 State (5, 1, 3) V = -3.04 Best Action: A3	State (2, 3, 1) V = -100000 Best Action: No Action	State (4, 4, 1) V = -1000 Best Action: No Action	State (1, 5, 4) V = -5.21 Best Action: A3 State (2, 1, 1) V = -3.62 Best Action: A4	State (3, 5, 4) V = 83.36 Best Action: A2 State (4, 1, 1) V = 0.91 Best Action: A4
State (2, 5, 3) V = -2.2 Best Action: A4 State (2, 5, 4) V = -2.14 Best Action: A3	State (5, 1, 4) V = -2.89 Best Action: A3	State (2, 3, 2) V = -100000 Best Action: No	State (4, 4, 2) V = -1000 Best Action: No	State (2, 1, 2) V = -3.62 Best Action: A3	State (4, 1, 2) V = 7.12 Best Action: A3
State (3, 1, 1) V = -1.68 Best Action: A4	State (5, 2, 1) V = -2.56 Best Action: A4	Action	Action	State (2, 1, 3) V = -4.05 Best Action: A3	State (4, 1, 3) V = 4.75 Best Action: A3

```
State (4, 1, 4) V = 13.79 Best Action: A1
State (4, 2, 1) V = -58.36 Best Action: A4
  State (4, 2, 2) V = 4.21 Best Action: A3
 State (4, 2, 3) V = -1.83 Best Action: A3
State (4, 2, 4) V = 10.12 Best Action: A1
State (4, 3, 1) V = -35.57 Best Action: A3
State (4, 3, 2) V = 27.28 Best Action: A4
  State (4, 3, 3) V = 36.58 Best Action: A1
 State (4, 3, 4) V = 19.81 Best Action: A1
State (4, 4, 1) V = -1000 Best Action: No
   Action
State (4, 4, 2) V = -1000 Best Action: No
  Action
  State (4, 4, 3) V = -1000 Best Action: No
 Action
State (4, 4, 4) V = -1000 Best Action: No
  Action
State (4, 5, 1) V = 68.01 Best Action: A4
State (4, 5, 1) V = -0.16 Best Action: A4 State (4, 5, 3) V = 55.36 Best Action: A4 State (4, 5, 4) V = 79.44 Best Action: A2 State (5, 1, 1) V = 26.11 Best Action: A2 State (5, 1, 2) V = 16.0 Best Action: A3
  State (5, 1, 3) V = 19.66 Best Action: A4
State (5, 1, 4) V = 21.44 Best Action: A3
 State (5, 2, 1) V = 21.44 Best Action: A3
State (5, 2, 1) V = 26.55 Best Action: A1
State (5, 2, 2) V = 16.57 Best Action: A3
  State (5, 2, 3) V = 20.45 Best Action: A4
  State (5, 2, 4) V = 21.84 Best Action: A3
  State (5, 3, 1) V = 34.2 Best Action: A3
 State (5, 3, 1) V = 34.2 Best Action: A3
State (5, 3, 2) V = 32.13 Best Action: A4
State (5, 3, 3) V = 40.7 Best Action: A2
State (5, 4, 1) V = 79.43 Best Action: A3
  State (5, 4, 2) V = 54.84 Best Action: A3
 State (5, 4, 2) V = -0.2 Best Action: As State (5, 4, 4) V = 67.97 Best Action: As State (5, 5, 1) V = 100 Best Action: No Action State (5, 5, 2) V = 100 Best Action: No Action
  State (5, 5, 3) V = 100 Best Action: No Action
 State (5, 5, 5) V = 100 Best Action: No Action Iteration 10:
State (1, 1, 1) V = 2.72 Best Action: A4
  State (1, 1, 2) V = 3.3 Best Action: A3
 State (1, 1, 3) V = 1.68 Best Action: A3
State (1, 1, 4) V = 8.93 Best Action: A2
State (1, 2, 1) V = -4.16 Best Action: A3
State (1, 2, 2) V = 0.38 Best Action: A1
  State (1, 2, 3) V = -1.07 Best Action: A3
 State (1, 2, 4) V = -1.07 Best Action: A3
State (1, 3, 1) V = -4.29 Best Action: A3
State (1, 3, 2) V = 0.18 Best Action: A2
                                                         Best Action: A3
  State (1, 3, 3) V = -1.24
  State (1, 3, 4) V = -1.24 Best Action: A4
  State (1, 4, 1) V = -5.69 Best Action: A3
 State (1, 4, 2) V = -2.15
State (1, 4, 2) V = -2.15
State (1, 4, 3) V = -3.18
State (1, 4, 4) V = -7.99
Best Action: A3
State (1, 4, 4) V = -7.99
Best Action: A4
  State (1, 5, 1) V = -5.26 Best Action: A3
  State (1, 5, 2) V = -2.37 Best Action: A2
 State (1, 5, 2) V = -2.3 Best Action: A2
State (1, 5, 4) V = -3.3 Best Action: A3
State (2, 1, 1) V = 4.12 Best Action: A4
State (2, 1, 2) V = 4.12 Best Action: A4
 State (2, 1, 3) V = 2.6 Best Action: A3
State (2, 1, 4) V = 9.86 Best Action: A1
State (2, 2, 1) V = -100000 Best Action: No
  Action
  State (2, 2, 2) V = -100000 Best Action: No
  Action
   State (2. 2. 3) V = -100000 Best Action: No
 Action
State (2, 2, 3) V = -100000 Best Action: No
Best Action: No
Best Action: No
  State (2, 3, 1) V = -100000 Best Action: No
    State (2, 3, 2) V = -100000 Best Action: No
  State (2, 3, 3) V = -100000 Best Action: No
  Action
 State (2, 3, 4) V = -100000 Best Action: No
Action
State (2, 4, 1) V = -10.51 Best Action: A1
State (2, 4, 2) V = -11.22 Best Action: A4
  State (2, 4, 3) V = -5.41 Best Action: A1
 State (2, 4, 4) V = -70.14 Best Action: A3
State (2, 5, 1) V = -5.61 Best Action: A3
State (2, 5, 2) V = -5.99 Best Action: A3
State (2, 5, 2) v = -5,39

State (2, 5, 4) v = -8.8

State (3, 1, 1) v = 10.41

State (3, 1, 1) v = 10.41

State (3, 1, 3) v = 7.71

State (3, 1, 4) v = 1.575

State (3, 1, 4) v = 1.575
  State (3, 2, 1) V = -100000 Best Action: No
   State (3, 2, 2) V = -100000 Best Action: No
  Action
State (3, 2, 3) V = -100000 Best Action: No
  Action
  State (3, 2, 4) V = -100000 Best Action: No
 Action
State (3, 3, 1) V = 58.99 Best Action: A2
State (3, 3, 2) V = 43.68 Best Action: A4
  State (3, 3, 3) V = 50.48 Best Action: A4
State (3, 3, 4) V = 47.37 Best Action: A3
 State (3, 4, 1) V = 54.66 Best Action: A1
State (3, 4, 2) V = 33.19 Best Action: A1
State (3, 4, 3) V = 40.16 Best Action: A4
  State (3, 4, 4) V = -20.56 Best Action: A3
 State (3, 5, 1) V = 71.71 Best Action: A4
State (3, 5, 2) V = 67.72 Best Action: A3
State (3, 5, 3) V = 62.53 Best Action: A4
  State (3, 5, 4) V = 83.37 Best Action: A2
  State (4, 1, 1) V = 3.91 Best Action: A4

        State (4, 1, 2) ∨ = 10.4
        Best Action: A3

        State (4, 1, 4) ∨ = 15.72
        Best Action: A3

        State (4, 2, 1) ∨ = -55.62
        Best Action: A1

        State (4, 2, 2) ∨ = 7.39
        Best Action: A3

        State (4, 2, 3) ∨ = 1.1
        Best Action: A1

        State (4, 2, 4) ∨ = 12.04
        Best Action: A1

        State (4, 3, 1) ∨ = 35.27
        Best Action: A3

        State (4, 3, 3) ∨ = 27.93
        Best Action: A1

        State (4, 3, 3) ∨ = 36.7
        Best Action: A1

  State (4, 1, 2) V = 10.4 Best Action: A3
 State (4, 3, 4) V = 20.46 Best Action: A1
State (4, 4, 1) V = -1000 Best Action: No
  Action State (4, 4, 2) V = -1000 Best Action: No
  Action
  State (4, 4, 3) V = -1000 Best Action: No
   State (4, 4, 4) V = -1000 Best Action: No
  State (4, 5, 1) V = 68.01 Best Action: A4
  State (4, 5, 2) V = -0.16 Best Action: A3
 State (4, 5, 3) V = 55.36 Best Action: A4
State (4, 5, 4) V = 79.44 Best Action: A1
State (5, 1, 1) V = 26.92 Best Action: A2
  State (5, 1, 2) V = 17.87 Best Action: A3
  State (5, 1, 3) V = 20.71 Best Action: A4
 State (5, 1, 4) V = 22.36 Best Action: A3
State (5, 2, 1) V = 27.35 Best Action: A1
State (5, 2, 2) V = 18.35 Best Action: A3
State (5, 2, 3) V = 21.42 Best Action: A4
  State (5, 2, 4) V = 22.75 Best Action: A3
 State (5, 3, 1) V = 34.5

State (5, 3, 2) V = 32.57

State (5, 3, 3) V = 40.81

State (5, 3, 3) V = 40.81

State (5, 3, 4) V = 29.65

Best Action: A3
  State (5, 4, 1) V = 79.43 Best Action: A1
State (5, 4, 2) V = 54.84 Best Action: A3
  State (5, 4, 3) V = -0.2 Best Action: A4
State (5, 4, 4) V = 67.97 Best Action: A3
  State (5, 5, 1) V = 100 Best Action: No Action
  State (5, 5, 2) V = 100 Best Action: No Action
State (5, 5, 3) V = 100 Best Action: No Action
  State (5, 5, 4) V = 100 Best Action: No Action
```