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| **Student:** |  |
| **Student ID:** |  |
| **Assignment Due Date:** | 11:59 PM, Thursday, December 9, 2021 |

# Point Breakdown

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| ***Graded Value*** | ***Points Possible*** | ***Criteria*** |
|  | 1 | Name of the zip file: FirstnameLastname\_Assignment8 |
|  | 1 | Name of the Assignment folder within the zip file: FirstnameLastname\_Assignment8 |
|  | 1 | Copy of Rubric 8.docx with your name and ID filled out |
|  | 1 | Python source code. |
|  | 2 | Part 1: N(s), S(s), and V(s) arrays printed out for epoch 0 and are correct |
|  | 3 | Part 1: N(s), S(s), and V(s) arrays printed out for epoch 1 and are correct |
|  | 3 | Part 1: N(s), S(s), and V(s) arrays printed out for epoch 10 and are correct |
|  | 3 | Part 1: N(s), S(s), and V(s) arrays printed out for the final epoch and are correct |
|  | 3 | Part 1: Array showing k, s, r, γ, and G(s) for all values of k for epoch 1 printed out and is correct. |
|  | 3 | Part 1: Array showing k, s, r, γ, and G(s) for all values of k for epoch 10 printed out and is correct. |
|  | 3 | Part 1: Array showing k, s, r, γ, and G(s) for all values of k for the final epoch printed out and is correct. |
|  | 3 | Answer to Part 1, Question 1 |
|  | 2 | Part 2: N(s), S(s), and V(s) arrays printed out for epoch 0 and are correct |
|  | 3 | Part 2: N(s), S(s), and V(s) arrays printed out for epoch 1 and are correct |
|  | 3 | Part 2: N(s), S(s), and V(s) arrays printed out for epoch 10 and are correct |
|  | 3 | Part 2: N(s), S(s), and V(s) arrays printed out for the final epoch and are correct |
|  | 3 | Part 2: Array showing k, s, r, γ, and G(s) for all values of k for epoch 1 printed out and is correct. |
|  | 3 | Part 2: Array showing k, s, r, γ, and G(s) for all values of k for epoch 10 printed out and is correct. |
|  | 3 | Part 2: Array showing k, s, r, γ, and G(s) for all values of k for the final epoch printed out and is correct. |
|  | 3 | Answer to Part 2, Question 2 |
|  | 3 | Answer to Part 3, Question 3 |
|  | 3 | Part 3: Array showing the Q-Learning Rewards Matrix (R). |
|  | 3 | Part 3: Array showing Q-Learning Value Matrix (Q) for episode 0 printed out and is correct. |
|  | 3 | Part 3: Array showing Q-Learning Value Matrix (Q) for episode 1 printed out and is correct. |
|  | 3 | Part 3: Array showing Q-Learning Value Matrix (Q) for episode 10 printed out and is correct. |
|  | 3 | Part 3: Array showing Q-Learning Value Matrix (Q) for the final episode printed out and is correct. |
|  | 3 | Answer to Part 3, Question 4 |
|  | 3 | Answer to Part 3, Question 5 |
|  | 3 |  |
|  | 3 | Part 4: Array showing the SARSA Rewards Matrix (R). |
|  | 2 | Part 4: Array showing SARSA Value Matrix (Q) for episode 0 printed out and is correct. |
|  | 3 | Part 4: Array showing SARSA Value Matrix (Q) for episode 1 printed out and is correct. |
|  | 3 | Part 4: Array showing SARSA Value Matrix (Q) for episode 10 printed out and is correct. |
|  | 3 | Part 4: Array showing SARSA Value Matrix (Q) for the final episode printed out and is correct. |
|  | 3 | Answer to Part 4, Question 6 |
|  | 3 | Answer to Part 4, Question 7 |
|  | 3 | Answer to Part 4, Question 8 |
|  | **100 pts** |  |

# Comments: