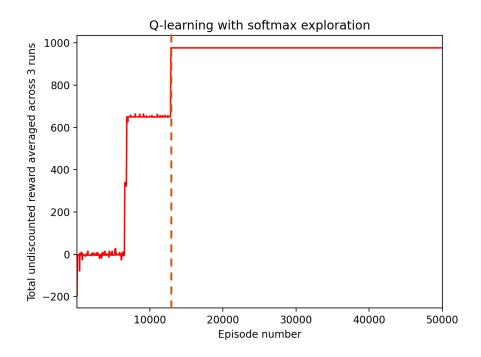
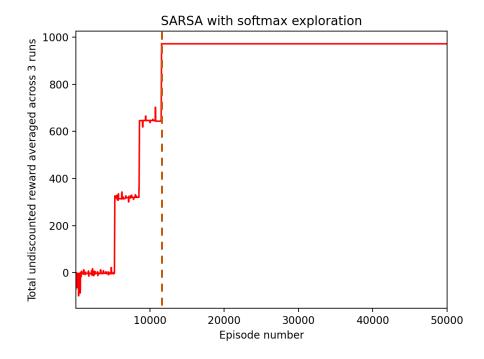
Question 2

1.2) Using $\alpha = 0.5$, $\gamma = 0.99$,

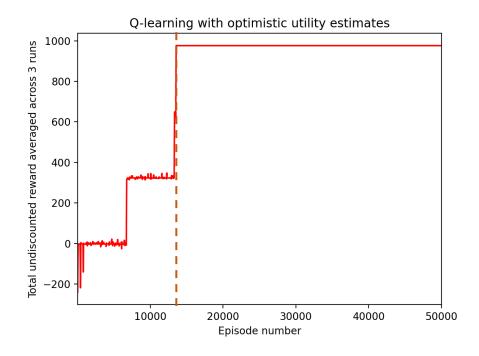
a. Q-learning + softmax exploration with $T\,=\,0.1$



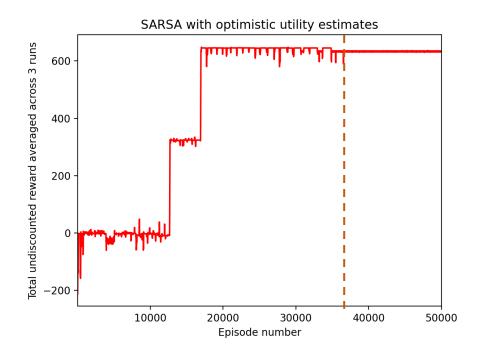
b. SARSA + softmax exploration with $T\,=\,0.1$



c. Q-learning + optimistic utility exploration with N_e = 2, R^+ = 999



d. SARSA + optimistic utility exploration with N_e = 2, R^+ = 999



2) If I were to explore the Wumpus world, I would choose SARSA with softmax exploration.

Based on the above graphs, SARSA with softmax exploration stabilized the fastest after 12,000 episodes, followed by Q-learning with softmax exploration (13,000 episodes), Q-learning with optimistic utility estimates (14,000 episodes), and SARSA with optimistic utility estimates (38,000 episodes). Note that all except SARSA with optimistic utility estimates have a lower reward of 600.