

[Course](#) > [Week 8](#) > [Lecture...](#) > Quiz 1: ...

## Quiz 1: Exploration vs. Exploitation

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2/2 points (ungraded)

#### Part 1

$\epsilon$ -greedy favors underexplored state-action pairs over state-action pairs that have been explored many times in the past.

☐ True

☒ False ✓

#### Part 2

Assume we use the modified Q-update,

$Q(s, a) \leftarrow_{\alpha} R(s, a, s') + \gamma \max_{a'} f(Q(s', a'), N(s', a'))$  with  $f(u, n) = u + k/n$ .

The Q-values learned will favor actions that lead to regions of the state space that have not been sufficiently explored yet.

☒ True ✓

☐ False

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✓ Correct (2/2 points)