**Granularity – G, Opposition – O, Discount – D, Random – R**

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| Single Q-Learning | | | | |
| Combination | Granularity | Random | Opposition | Discount |
| None | | | | |
| - | (1, 1, 6, 3) | - | - | - |
| One | | | | |
| G | (1, 1, 6, 7) | - | - | - |
| O | - | - | - | - |
| D | (1, 1, 6, 3) | - | - | (0.99, 100) |
| R | (1, 1, 6, 3) | 1 | - | - |
| Two | | | | |
| G + O | (1, 1, 6, 7) | - | Yes | - |
| G + D | (1, 1, 6, 7) | - | - | (0.99, 100) |
| G + R | (1, 1, 6, 7) | 1 | - | - |
| O + D | - | - | - | - |
| O + R | - | - | - | - |
| D + R | (1, 1, 6, 3) | 1 | - | (0.99, 100) |
| Three | | | | |
| G + O + D | (1, 1, 6, 7) | - | Yes | (0.99, 100) |
| G + O + R | (1, 1, 6, 7) | 1 | Yes | - |
| G + D + R | (1, 1, 6, 7) | 1 | - | (0.99, 100) |
| O + D + R | - | - | - | - |
| Four | | | | |
| G + O + D + R | (1, 1, 6, 7) | 1 | Yes | (0.99, 100) |

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| Double Q-Learning | | | | |
| Combination | Granularity | Random | Opposition | Discount |
| None | | | | |
| - | (1, 1, 6, 3) | - | - | - |
| One | | | | |
| G | (1, 1, 6, 7) | - | - | - |
| O | - | - | - | - |
| D | (1, 1, 6, 3) | - | - | (0.99, 100) |
| R | (1, 1, 6, 3) | 1 | - | - |
| Two | | | | |
| G + O | (1, 1, 6, 7) | - | Yes | - |
| G + D | (1, 1, 6, 7) | - | - | (0.99, 100) |
| G + R | (1, 1, 6, 7) | 1 | - | - |
| O + D | - | - | - | - |
| O + R | - | - | - | - |
| D + R | (1, 1, 6, 3) | 1 | - | (0.99, 100) |
| Three | | | | |
| G + O + D | (1, 1, 6, 7) | - | Yes | (0.99, 100) |
| G + O + R | (1, 1, 6, 7) | 1 | Yes | - |
| G + D + R | (1, 1, 6, 7) | 1 | - | (0.99, 100) |
| O + D + R | - | - | - | - |
| Four | | | | |
| G + O + D + R | (1, 1, 6, 7) | 1 | Yes | (0.99, 100) |

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| Triple Q-Learning | | | | |
| Combination | Granularity | Random | Opposition | Discount |
| None | | | | |
| - | (1, 1, 6, 3) | - | - | - |
| One | | | | |
| G | (1, 1, 6, 7) | - | - | - |
| O | (1, 1, 6, 3) | - | Yes | - |
| D | (1, 1, 6, 3) | - | - | (0.99, 100) |
| R | (1, 1, 6, 3) | 1 | - | - |
| Two | | | | |
| G + O | (1, 1, 6, 7) | - | Yes | - |
| G + D | (1, 1, 6, 7) | - | - | (0.99, 100) |
| G + R | (1, 1, 6, 7) | 1 | - | - |
| O + D | (1, 1, 6, 3) | - | Yes | (0.99, 100) |
| O + R | (1, 1, 6, 3) | 1 | Yes | - |
| D + R | (1, 1, 6, 3) | 1 | - | (0.99, 100) |
| Three | | | | |
| G + O + D | (1, 1, 6, 7) | - | Yes | (0.99, 100) |
| G + O + R | (1, 1, 6, 7) | 1 | Yes | - |
| G + D + R | (1, 1, 6, 7) | 1 | - | (0.99, 100) |
| O + D + R | (1, 1, 6, 3) | 1 | Yes | (0.99, 100) |
| Four | | | | |
| G + O + D + R | (1, 1, 6, 7) | 1 | Yes | (0.99, 100) |

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| Quadruple Q-Learning | | | | |
| Combination | Granularity | Random | Opposition | Discount |
| None | | | | |
| - | (1, 1, 6, 3) | - | - | - |
| One | | | | |
| G | (1, 1, 6, 7) | - | - | - |
| O | (1, 1, 6, 3) | - | Yes | - |
| D | (1, 1, 6, 3) | - | - | (0.99, 100) |
| R | (1, 1, 6, 3) | 1 | - | - |
| Two | | | | |
| G + O | (1, 1, 6, 7) | - | Yes | - |
| G + D | (1, 1, 6, 7) | - | - | (0.99, 100) |
| G + R | (1, 1, 6, 7) | 1 | - | - |
| O + D | (1, 1, 6, 3) | - | Yes | (0.99, 100) |
| O + R | (1, 1, 6, 3) | 1 | Yes | - |
| D + R | (1, 1, 6, 3) | 1 | - | (0.99, 100) |
| Three | | | | |
| G + O + D | (1, 1, 6, 7) | - | Yes | (0.99, 100) |
| G + O + R | (1, 1, 6, 7) | 1 | Yes | - |
| G + D + R | (1, 1, 6, 7) | 1 | - | (0.99, 100) |
| O + D + R | (1, 1, 6, 3) | 1 | Yes | (0.99, 100) |
| Four | | | | |
| G + O + D + R | (1, 1, 6, 7) | 1 | Yes | (0.99, 100) |

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| Quintuple Q-Learning | | | | |
| Combination | Granularity | Random | Opposition | Discount |
| None | | | | |
| - | - | - | - | - |
| One | | | | |
| G | - | - | - | - |
| O | (1, 1, 6, 3) | - | Yes | - |
| D | - | - | - | - |
| R | - | - | - | - |
| Two | | | | |
| G + O | (1, 1, 6, 7) | - | Yes | - |
| G + D | - | - | - | - |
| G + R | - | - | - | - |
| O + D | (1, 1, 6, 3) | - | Yes | (0.99, 100) |
| O + R | (1, 1, 6, 3) | 1 | Yes | - |
| D + R | - | - | - | - |
| Three | | | | |
| G + O + D | (1, 1, 6, 7) | - | Yes | (0.99, 100) |
| G + O + R | (1, 1, 6, 7) | 1 | Yes | - |
| G + D + R | - | - | - | - |
| O + D + R | (1, 1, 6, 3) | 1 | Yes | (0.99, 100) |
| Four | | | | |
| G + O + D + R | (1, 1, 6, 7) | 1 | Yes | (0.99, 100) |