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<td>explore root move max child</td>
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<td>6.95 - 0.128.31</td>
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<td>8.340.721.45</td>
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<td>explore root move by N</td>
<td>4.83 - 1.725.84</td>
<td>5.19 - 0.995.38</td>
<td>5.24 - 0.995.43</td>
<td>5.32 - 0.694.46</td>
<td>5.46 - 0.865.43</td>
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<tr>
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<td>5.11 - 1.525.81</td>
<td>5.07 - 1.395.84</td>
<td>4.98 - 1.125.76</td>
<td>5.33 - 0.575.21</td>
<td>5.47 - 1.385.76</td>
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<td>explore root move logistic</td>
<td>5.47 - 1.324.84</td>
<td>5.98 - 0.615.06</td>
<td>5.33 - 1.084.09</td>
<td>5.78 - 0.382.25</td>
<td>5.68 - 0.655.27</td>
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<tr>
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<td>5.4 - 1.155.49</td>
<td>5.17 - 1.142.08</td>
<td>5.77 - 0.915.01</td>
<td>5.64 - 0.884.66</td>
<td>5.64 - 1.145.71</td>
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<tr>
<td>explore root move logistic by N</td>
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<td>5.69 - 0.884.45</td>
<td>5.78 - 0.375.23</td>
<td>6.16 - 0.505.11</td>
<td>6.1 - 0.533.74</td>
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<tr>
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<td>5.55 - 0.634.14</td>
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<td>5.78 - 1.254.83</td>
<td>5.01 - 0.195.47</td>
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<tr>
<td>explore uniform move max child</td>
<td>7.730.162.92</td>
<td>7.53 - 0.654.62</td>
<td>6.08 - 0.375.19</td>
<td>5.76 - 0.842.98</td>
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<tr>
<td>explore uniform move max child(2nd)</td>
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<td>5.154.335.73</td>
<td>4.864.065.69</td>
<td>4.793.635.78</td>
<td>4.973.445.35</td>
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<td>explore uniform move by N</td>
<td>5.43 - 0.243.36</td>
<td>5.36 - 1.162.92</td>
<td>5.49 - 0.945.01</td>
<td>5.17 - 1.225.97</td>
<td>5.46 - 0.655.12</td>
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<tr>
<td>explore uniform move by N(2nd)</td>
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<td>5.060.857.35</td>
<td>5.251.215.17</td>
<td>5.221.528.34</td>
<td>5.031.326.28</td>
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<td>explore uniform move logistic</td>
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<td>5.27 - 0.652.27</td>
<td>5.09 - 1.344.96</td>
<td>5.28 - 1.015.99</td>
<td>5.03 - 1.214.98</td>
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<td>5.591.426.22</td>
<td>5.340.685.98</td>
<td>5.250.795.95</td>
<td>5.130.864.02</td>
</tr>
<tr>
<td>explore uniform move logistic by N</td>
<td>5.84 - 0.452.74</td>
<td>5.42 - 1.024.96</td>
<td>5.36 - 1.885.41</td>
<td>5.49 - 1.014.94</td>
<td>5.28 - 1.115.95</td>
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<td>5.352.515.49</td>
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<td>explore by N move max child</td>
<td>7.5 - 0.333.84</td>
<td>7.540.605.29</td>
<td>5.26 - 1.253.96</td>
<td>5.38 - 1.605.75</td>
<td>4.59 - 1.585.91</td>
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<td>explore by N move max child(2nd)</td>
<td>4.663.961.74</td>
<td>5.273.774.44</td>
<td>5.043.345.62</td>
<td>5.253.715.41</td>
<td>5.283.994.56</td>
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<tr>
<td>explore by N move by N</td>
<td>5.43 - 0.905.80</td>
<td>5.2 - 1.115.06</td>
<td>5.5 - 1.843.96</td>
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<td>5.35 - 0.923.95</td>
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<tr>
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<td>5.380.905.25</td>
<td>5.282.055.93</td>
<td>5.281.235.17</td>
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<tr>
<td>explore by N move logistic</td>
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<td>5.72 - 0.365.22</td>
<td>5.23 - 0.845.31</td>
<td>5.4 - 1.244.88</td>
<td>5.23 - 0.784.19</td>
</tr>
<tr>
<td>explore by N move logistic(2nd)</td>
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<td>5.430.962.35</td>
<td>5.381.322.44</td>
<td>5.231.165.13</td>
<td>5.401.754.96</td>
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<tr>
<td>explore by N move logistic by N</td>
<td>5.85 - 0.192.26</td>
<td>5.59 - 0.654.29</td>
<td>5.8 - 1.048.74</td>
<td>5.52 - 0.974.96</td>
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<td>5.427.69</td>
<td>5.572.325.69</td>
<td>5.422.905.91</td>
<td>5.132.455.84</td>
<td>5.321.276.94</td>
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Table 1: Mutual Hidden Matching Pennies outcomes for game length 10
Table 2: Mutual Hidden Matching Pennies outcomes with player 1 using explore root and move max child

<table>
<thead>
<tr>
<th>Cvals of 1</th>
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<th>2.1</th>
<th>4.2</th>
<th>6.3</th>
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<tbody>
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<td>3.26 - 0.5653</td>
<td>3.13 - 1.1153</td>
<td>3.19 - 1.6133</td>
</tr>
<tr>
<td>1.4</td>
<td>3.380.223</td>
<td>3.1 - 0.5333</td>
<td>3.28 - 0.2433</td>
<td>3.36 - 0.7533</td>
<td>3.11 - 1.2733</td>
</tr>
<tr>
<td>2.1</td>
<td>3.160.793</td>
<td>3.22 - 0.2833</td>
<td>3.28 - 0.3533</td>
<td>3.24 - 0.9333</td>
<td>3.25 - 1.2633</td>
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<td>4.2</td>
<td>3.280.105</td>
<td>3.21 - 0.2433</td>
<td>3.17 - 0.2433</td>
<td>3.23 - 0.8533</td>
<td>3.12 - 1.2533</td>
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<td>3.01 - 0.8633</td>
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Table 3: Mutual Hidden Matching Pennies outcomes with player 1 using explore root and move by N

<table>
<thead>
<tr>
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<th>4.2</th>
<th>6.3</th>
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</thead>
<tbody>
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<td>2.5 - 0.1243</td>
<td>2.43 - 0.1543</td>
<td>2.47 - 0.3443</td>
<td>2.64 - 0.9543</td>
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<tr>
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<td>2.370.127</td>
<td>2.650.543</td>
<td>2.40.451</td>
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<td>2.63 - 0.6843</td>
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<tr>
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<td>2.931.185</td>
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<td>4.2</td>
<td>2.160.705</td>
<td>2.30.753</td>
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<td>2.270.553</td>
<td>2.410.671</td>
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<td>6.3</td>
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Table 4: Mutual Hidden Matching Pennies outcomes with player 1 using explore by N and move max child

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<th>6.3</th>
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<tbody>
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<td>2.73 - 0.7243</td>
<td>2.34 - 1.1243</td>
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<td>2.53 - 1.0427</td>
<td>2.51 - 0.6927</td>
<td>2.5 - 0.3252</td>
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Table 5: Mutual Hidden Matching Pennies outcomes with player 1 using explore by N and move by N
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<th>Cvals of 2</th>
<th>Cvals of 2</th>
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<td>2.50 - 0.205^2.31</td>
<td>2.5 - 0.365^2.97</td>
<td>2.58 - 0.555^2.88</td>
<td>2.650^2.60</td>
<td>2.55 - 0.965^2.56</td>
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<td>2.430 - 0.11^3.83</td>
<td>2.640^2.86</td>
<td>2.22 - 0.2^4.1</td>
<td>2.59 - 0.275^4.38</td>
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<td>2.410 - 0.2^3.6</td>
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<td>2.220 - 0.65^3.6</td>
<td>2.751 - 0.343</td>
<td>2.480 - 0.565^3.11</td>
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<td>2.531.33</td>
<td>2.570 - 0.43^3.6</td>
<td>2.531 - 0.105^4.5</td>
<td>2.450 - 0.855^3.94</td>
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Table 6: Mutual Hidden Matching Pennies outcomes with player 1 using explore uniform and move max child

<table>
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<th>Cvals of 2</th>
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<td>2.86 - 0.405^3.83</td>
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<td>2.39 - 0.86^4.38</td>
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<tr>
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<td>2.71 - 0.45^2.9</td>
<td>2.66 - 0.14^2.83</td>
<td>2.64 - 0.91^2.4</td>
<td>2.69 - 0.675^2.28</td>
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<td>2.38 - 0.54^2.7</td>
<td>2.57 - 0.945^1.5</td>
<td>2.48 - 0.432^1.4</td>
</tr>
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<td>2.48 - 0.25^2.3</td>
<td>2.59 - 0.52^2.6</td>
<td>2.6 - 0.31^2.8</td>
<td>2.65 - 0.825^2.4</td>
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Table 7: Mutual Hidden Matching Pennies outcomes with player 1 using explore uniform and move by N

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<td>2.43 - 0.21^1.27</td>
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<tr>
<td>3 explore by N</td>
<td>1.54 - 1.3^1.52</td>
<td>1.54 - 1.5^1.46</td>
</tr>
<tr>
<td>4 explore root</td>
<td>3.51 - 0.465^1.61</td>
<td>3.51 - 0.415^1.37</td>
</tr>
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<td>4 explore by N</td>
<td>2.22 - 2.2^2.06</td>
<td>2.05 - 1.775^2.28</td>
</tr>
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<td>5 explore root</td>
<td>4.28 - 1.51^3.74</td>
<td>4.21 - 1.163^3.57</td>
</tr>
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<td>2.46 - 1.7^2.89</td>
<td>2.59 - 2.1795^2.42</td>
</tr>
<tr>
<td>10 explore root</td>
<td>7.98 - 0.225^2.11</td>
<td>7.89 - 0.31^3.3</td>
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<td>10 explore by N</td>
<td>4.37 - 5.165^2.06</td>
<td>4.92 - 4.945^2.12</td>
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<td>20 explore root</td>
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<td>11.64 - 0.999^13.6</td>
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Table 8: Mutual Hidden Matching Pennies outcomes, symmetrical game, compare player 1 matching with player 1 different