## List of all strategies used from [21]

- 1. Adaptive Deterministic Memory length:  $\infty$  [25]
- 2. Adaptive Tit For Tat: 0.5 Deterministic Memory length:  $\infty$  [39]
- 3. Aggravater Deterministic Memory length:  $\infty$  [21]
- 4. Alexei: (D,) Deterministic Memory length:  $\infty$  [43]
- 5. ALLCorALLD Stochastic Memory length: 1 [2]
- 6. Alternator Deterministic Memory length: 1 [31, 11]
- 7. Alternator Hunter Deterministic Memory length:  $\infty$  [21]
- 8. AntiCycler Deterministic Memory length:  $\infty$  [21]
- 9. Anti Tit For Tat Deterministic Memory length: 1 [18]
- 10. AON2 Deterministic Memory length: 2 [19]
- 11. Adaptive Pavlov 2006 Deterministic Memory length:  $\infty$  [24]
- 12. Adaptive Pavlov 2011 Deterministic Memory length:  $\infty$  [25]
- 13. Appeaser Deterministic Memory length:  $\infty$  [21]
- 14. Arrogant QLearner Stochastic Memory length:  $\infty$  [21]
- 15. Average Copier Stochastic Memory length:  $\infty$  [21]
- 16. BackStabber: (D, D) Deterministic Memory length:  $\infty$  [21]
- 17. Better and Better Stochastic Memory length:  $\infty$  [29]
- 18. Black Stochastic Memory length: 5 [10]
- 19. Borufsen Deterministic Memory length:  $\infty$  [10]
- 20. Bully Deterministic Memory length: 1 [32]
- 21. Bush Mosteller: 0.5, 0.5, 3.0, 0.5 Stochastic Memory length:  $\infty$  [20]
- 22. Calculator Stochastic Memory length:  $\infty$  [29]
- 23. Cautious QLearner Stochastic Memory length:  $\infty$  [21]
- 24. Cave Stochastic Memory length:  $\infty$  [10]
- 25. Champion Stochastic Memory length:  $\infty$  [10]
- 26. Colbert Deterministic Memory length: 4 [10]
- 27. CollectiveStrategy Deterministic Memory length:  $\infty$  [26]
- 28. Contrite Tit For Tat Deterministic Memory length: 3 [42]
- 29. Cooperator Deterministic Memory length: 0 [31, 11, 34]
- 30. Cooperator Hunter Deterministic Memory length:  $\infty$  [21]
- 31. Cycle Hunter Deterministic Memory length:  $\infty$  [21]
- 32. Cycler CCCCCD Deterministic Memory length: 5 [21]

- 33. Cycler CCCD Deterministic Memory length: 3 [21]
- 34. Cycler CCD Deterministic Memory length: 2 [31]
- 35. Cycler DC Deterministic Memory length: 1 [21]
- 36. Cycler DDC Deterministic Memory length: 2 [31]
- 37. Cycler CCCDCD Deterministic Memory length: 5 [21]
- 38. Davis: 10 Deterministic Memory length:  $\infty$  [9]
- 39. Defector Deterministic Memory length: 0 [31, 11, 34]
- 40. Defector Hunter Deterministic Memory length:  $\infty$  [21]
- 41. Desperate Stochastic Memory length: 1 [41]
- 42. Delayed AON1 Deterministic Memory length: 2 [19]
- 43. Double Crosser: (D, D) Deterministic Memory length:  $\infty$  [21]
- 44. Doubler Deterministic Memory length:  $\infty$  [29]
- 45. DoubleResurrection Deterministic Memory length: 5 [15]
- 46. EasyGo Deterministic Memory length:  $\infty$  [25, 29]
- 47. Eatherley Stochastic Memory length:  $\infty$  [10]
- 48. EugineNier: (D,) Deterministic Memory length:  $\infty$  [43]
- 49. Eventual Cycle Hunter Deterministic Memory length:  $\infty$  [21]
- 50. Evolved ANN Deterministic Memory length:  $\infty$  [21]
- 51. Evolved ANN 5 Deterministic Memory length:  $\infty$  [21]
- 52. Evolved ANN 5 Noise 05 Deterministic Memory length:  $\infty$  [21]
- 53. Evolved FSM 4 Deterministic Memory length: 4 [21]
- 54. Evolved FSM 16 Deterministic Memory length: 16 [21]
- 55. Evolved FSM 16 Noise 05 Deterministic Memory length: 16 [21]
- 56. Evolved Looker Up<br/>1\_1\_1 - Deterministic - Memory length:  $\infty$  - [21]
- 57. Evolved Looker Up<br/>2\_2\_2 - Deterministic - Memory length:  $\infty$  - [21]
- 58. Evolved HMM 5 Stochastic Memory length: 5 [21]
- 59. Feld: 1.0, 0.5, 200 Stochastic Memory length: 200 [9]
- 60. Firm But Fair Stochastic Memory length: 1 [16]
- 61. Fool Me Forever Deterministic Memory length:  $\infty$  [21]
- 62. Fool Me Once Deterministic Memory length:  $\infty$  [21]
- 63. Forgetful Fool Me Once: 0.05 Stochastic Memory length:  $\infty$  [21]
- 64. Forgetful Grudger Deterministic Memory length: 10 [21]
- 65. Forgiver Deterministic Memory length:  $\infty$  [21]
- 66. Forgiving Tit For Tat Deterministic Memory length:  $\infty$  [21]
- 67. Fortress3 Deterministic Memory length: 3 [7]
- 68. Fortress4 Deterministic Memory length: 4 [7]
- 69. GTFT: 0.33 Stochastic Memory length: 1 [17, 33]

- 70. General Soft Grudger: n=1, d=4, c=2 Deterministic Memory length:  $\infty$  [21]
- 71. Getzler Stochastic Memory length:  $\infty$  [10]
- 72. Gladstein Deterministic Memory length:  $\infty$  [10]
- 73. Soft Go By Majority Deterministic Memory length:  $\infty$  [31, 11, 10]
- 74. Soft Go By Majority: 10 Deterministic Memory length: 10 [21]
- 75. Soft Go By Majority: 20 Deterministic Memory length: 20 [21]
- 76. Soft Go By Majority: 40 Deterministic Memory length: 40 [21]
- 77. Soft Go By Majority: 5 Deterministic Memory length: 5 [21]
- 78.  $\phi$  Deterministic Memory length:  $\infty$  [21]
- 79. GraaskampKatzen Deterministic Memory length:  $\infty$  [10]
- 80. Gradual Deterministic Memory length:  $\infty$  [13]
- 81. Gradual Killer: (D, D, D, D, D, C, C) Deterministic Memory length:  $\infty$  [29]
- 82. Grofman Stochastic Memory length:  $\infty$  [9]
- 83. Grudger Deterministic Memory length: 1 [12, 25, 13, 41, 9]
- 84. Grudger Alternator - Deterministic - Memory length:<br/>  $\infty$  - [29]
- 85. Grumpy: Nice, 10, -10 Deterministic Memory length:  $\infty$  [21]
- 86. Handshake Deterministic Memory length:  $\infty$  [35]
- 87. Hard Go By Majority Deterministic Memory length:  $\infty$  [31]
- 88. Hard Go By Majority: 10 Deterministic Memory length: 10 [21]
- 89. Hard Go By Majority: 20 Deterministic Memory length: 20 [21]
- 90. Hard Go By Majority: 40 Deterministic Memory length: 40 [21]
- 91. Hard Go By Majority: 5 Deterministic Memory length: 5 [21]
- 92. Hard Prober Deterministic Memory length:  $\infty$  [29]
- 93. Hard Tit For 2 Tats Deterministic Memory length: 3 [38]
- 94. Hard Tit For Tat Deterministic Memory length: 3 [40]
- 95. Harrington Stochastic Memory length:  $\infty$  [10]
- 96. Hesitant Q<br/>Learner Stochastic Memory length:  $\infty$  <br/> [21]
- 97. Hopeless Stochastic Memory length: 1 [41]
- 98. Inverse Stochastic Memory length:  $\infty$  [21]
- 99. Inverse Punisher Deterministic Memory length:  $\infty$  [21]
- 100. Joss: 0.9 Stochastic Memory length: 1 [38, 9]
- 101. Kluepfel Stochastic Memory length:  $\infty$  [10]
- 102. Knowledgeable Worse and Worse Stochastic Memory length:  $\infty$  [21]
- 103. Level Punisher Deterministic Memory length:  $\infty$  [15]
- 104. Leyvraz Stochastic Memory length: 3 [10]
- 105. Limited Retaliate: 0.1, 20 Deterministic Memory length:  $\infty$  [21]
- 106. Limited Retaliate 2: 0.08, 15 Deterministic Memory length:  $\infty$  [21]

- 107. Limited Retaliate 3: 0.05, 20 Deterministic Memory length:  $\infty$  [21]
- 108. Math Constant Hunter Deterministic Memory length:  $\infty$  [21]
- 109. Naive Prober: 0.1 Stochastic Memory length: 1 [25]
- 110. MEM2 Deterministic Memory length:  $\infty$  [27]
- 111. Michaelos: (D,) Stochastic Memory length:  $\infty$  [43]
- 112. Mikkelson Deterministic Memory length:  $\infty$  [10]
- 113. MoreGrofman Deterministic Memory length: 8 [10]
- 114. More Tideman and Chieruzzi Deterministic Memory length:  $\infty$  [10]
- 115. Negation Stochastic Memory length: 1 [40]
- 116. Nice Average Copier Stochastic Memory length:  $\infty$  [21]
- 117. N Tit(s) For M Tat(s): 3, 2 Deterministic Memory length: 3 [21]
- 118. Nydegger Deterministic Memory length: 3 [9]
- 119. Omega TFT: 3, 8 Deterministic Memory length:  $\infty$  [37]
- 120. Once Bitten Deterministic Memory length: 12 [21]
- 121. Opposite Grudger Deterministic Memory length:  $\infty$  [21]
- 122.  $\pi$  Deterministic Memory length:  $\infty$  [21]
- 123. Predator Deterministic Memory length: 9 [7]
- 124. Prober Deterministic Memory length:  $\infty$  [25]
- 125. Prober 2 Deterministic Memory length:  $\infty$  [29]
- 126. Prober 3 Deterministic Memory length:  $\infty$  [29]
- 127. Prober 4 Deterministic Memory length:  $\infty$  [29]
- 128. Pun1 Deterministic Memory length: 2 [6]
- 129. PSO Gambler 1.1.1 Stochastic Memory length:  $\infty$  [21]
- 130. PSO Gambler 2\_2\_2 Stochastic Memory length:  $\infty$  [21]
- 131. PSO Gambler 2\_2\_2 Noise 05 Stochastic Memory length:  $\infty$  [21]
- 132. PSO Gambler Mem1 Stochastic Memory length: 1 [21]
- 133. Punisher Deterministic Memory length:  $\infty$  [21]
- 134. Raider Deterministic Memory length: 3 [8]
- 135. Random: 0.5 Stochastic Memory length: 0 [39, 9]
- 136. Random Hunter Deterministic Memory length:  $\infty$  [21]
- 137. Random Tit for Tat: 0.5 Stochastic Memory length: 1 [21]
- 138. Remorseful Prober: 0.1 Stochastic Memory length: 2 [25]
- 139. Resurrection Deterministic Memory length: 5 [15]
- 140. Retaliate: 0.1 Deterministic Memory length:  $\infty$  [21]
- 141. Retaliate 2: 0.08 Deterministic Memory length:  $\infty$  [21]
- 142. Retaliate 3: 0.05 Deterministic Memory length:  $\infty$  [21]
- 143. Revised Downing: True Deterministic Memory length:  $\infty$  [9]

- 144. Richard Hufford Deterministic Memory length:  $\infty$  [10]
- 145. Ripoff Deterministic Memory length: 2 [5]
- 146. Risky Q<br/>Learner Stochastic Memory length:  $\infty$  [21]
- 147. SelfSteem Stochastic Memory length:  $\infty$  [14]
- 148. ShortMem Deterministic Memory length: 10 [14]
- 149. Shubik Deterministic Memory length:  $\infty$  [9]
- 150. Slow Tit For Two Tats 2 Deterministic Memory length: 2 [29]
- 151. Sneaky Tit For Tat Deterministic Memory length:  $\infty$  [21]
- 152. Soft Grudger Deterministic Memory length: 6 [25]
- 153. Soft Joss: 0.9 Stochastic Memory length: 1 [29]
- 154. SolutionB1 Deterministic Memory length: 3 [4]
- 155. SolutionB5 Deterministic Memory length: 5 [4]
- 156. Spiteful Tit For Tat Deterministic Memory length:  $\infty$  [29]
- 157. Stalker: (D,) Stochastic Memory length:  $\infty$  [14]
- 158. Stein and Rapoport: 0.05: (D, D) Deterministic Memory length:  $\infty$  [9]
- 159. Stochastic Cooperator Stochastic Memory length: 1 [1]
- 160. Stochastic WSLS: 0.05 Stochastic Memory length: 1 [3]
- 161. Suspicious Tit For Tat Deterministic Memory length: 1 [13, 18]
- 162. Tester Deterministic Memory length:  $\infty$  [10]
- 163. TF1 Deterministic Memory length:  $\infty$  [21]
- 164. TF2 Deterministic Memory length:  $\infty$  [21]
- 165. TF3 Deterministic Memory length:  $\infty$  [21]
- 166. ThueMorse Deterministic Memory length:  $\infty$  [21]
- 167. ThueMorseInverse Deterministic Memory length:  $\infty$  [21]
- 168. Thumper Deterministic Memory length: 2 [5]
- 169. Tideman and Chieruzzi Deterministic Memory length:  $\infty$  [9]
- 170. Tit For Tat Deterministic Memory length: 1 [9]
- 171. Tit For 2 Tats Deterministic Memory length: 2 [11]
- 172. Tranquilizer Stochastic Memory length:  $\infty$  [9]
- 173. Tricky Cooperator Deterministic Memory length: 10 [21]
- 174. Tricky Defector Deterministic Memory length:  $\infty$  [21]
- 175. Tricky Level Punisher Deterministic Memory length:  $\infty$  [15]
- 176. Tullock: 11 Stochastic Memory length: 11 [9]
- 177. Two Tits For Tat Deterministic Memory length: 2 [11]
- 178. VeryBad Deterministic Memory length:  $\infty$  [14]
- 179. Weiner Deterministic Memory length:  $\infty$  [10]
- 180. White Deterministic Memory length:  $\infty$  [10]

- 181. Willing Stochastic Memory length: 1 [41]
- 182. Winner12 Deterministic Memory length: 2 [30]
- 183. Winner21 Deterministic Memory length: 2 [30]
- 184. Win-Shift Lose-Stay: D Deterministic Memory length: 1 [25]
- 185. Win-Stay Lose-Shift: C Deterministic Memory length: 1 [38, 33, 22]
- 186. WmAdams Stochastic Memory length:  $\infty$  [10]
- 187. Worse and Worse Stochastic Memory length:  $\infty$  [29]
- 188. Worse and Worse 2 Stochastic Memory length:  $\infty$  [29]
- 189. Worse and Worse 3 Stochastic Memory length:  $\infty$  [29]
- 190. Yamachi Deterministic Memory length:  $\infty$  [10]
- 191. ZD-Extortion: 0.2, 0.1, 1 Stochastic Memory length: 1 [36]
- 192. ZD-Extort-2: 0.11111111111111111, 0.5 Stochastic Memory length: 1 [38]
- 193. ZD-Extort3: 0.11538461538461539, 0.333333333333333333333, 1 Stochastic Memory length: 1 [34]
- 194. ZD-Extort-2 v2: 0.125, 0.5, 1 Stochastic Memory length: 1 [23]
- 195. ZD-Extort-4: 0.23529411764705882, 0.25, 1 Stochastic Memory length: 1 [21]
- 196. ZD-GTFT-2: 0.25, 0.5 Stochastic Memory length: 1 [38]
- 197. ZD-GEN-2: 0.125, 0.5, 3 Stochastic Memory length: 1 [23]
- 198. ZD-Mem2 Stochastic Memory length: 2 [28]
- 199. ZD-Mischief: 0.1, 0.0, 1 Stochastic Memory length: 1 [36]
- 200. ZD-SET-2: 0.25, 0.0, 2 Stochastic Memory length: 1 [23]
- 201. e Deterministic Memory length:  $\infty$  [21]
- 202. Dynamic Two Tits For Tat Stochastic Memory length:  $\infty$  [21]
- 203. Meta Hunter: 6 players Deterministic Memory length:  $\infty$  [21]
- 204. Meta Hunter Aggressive: 7 players Deterministic Memory length:  $\infty$  [21]

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