The algorithm I implemented is Monte Carlo Tree Search. After running 100 games, my agent won 20/100 matches, meaning it had a 20% winrate against the random player.

Majority of the games were draws due to threefold repetition which means the same board was made 3 times within a game.

The agent I designed can be improved because the game times were extremely long in some cases due to the number of possible moves in board states so simulations took longer to complete.

One approach I did but did not put in final code to keep traditional MCTS algorithm is a depth limit of the search tree. This would limit the amount of simulations that needed to be done so it would complete faster. I added a limit for testing and found that games lasted less time than without a simulation limit. l also went with a balanced value for the UCB formula it uses for scoring nodes and determining which one to take to observe the moves made in the game. Choosing a lower value would have made the games much faster due to more aggresive options.

My agent took short amounts of time to make moves in the early game due to boards having similar score values. Once the game has a few moves done which is near the mid game, the time would increase which makes sense because

there are more pieces now that have multiple options to take and the board is more open, so there are more possibilities to run for each board, resulting in longer simulation time. More into the late game, the time to make moves decreased because there are less pieces now

so there are less move	s to choose from so simulations go faste	r.						
	Color of Agent	Time duration of game	Winner		Sample Times	Time taken in game 41	Time taken in game 6	Time taken in game 92
Same 1	Black	3092.28 seconds	Loss vs RandomPlayer L	Loss: 2		2.62 seconds	2.67 seconds	2.61 seconds
ame 2	White	2576.99 seconds	Draw by threefold D	Draw:		2.62 seconds	2.79 seconds	2.55 seconds
ame 3	Black	1394.48 seconds	Agent wins W	Wins:		2.15 seconds	2.59 seconds	2.50 seconds
me 4	White	3784.63 seconds	Draw by threefold D			2.23 seconds	3.35 seconds	2.78 seconds
me 5	Black	2381.24 seconds	Agent wins W	1		2.33 seconds	3.33 seconds	2.73 seconds
me 6	White	821.76 seconds	Agent wins W	1		2.27 seconds	3.46 seconds	3.07 seconds
ime 7	Black	4301.76 seconds	Draw by threefold D			4.44 seconds	3.24 seconds	2.68 seconds
me 8	White	2885.04 seconds	Loss vs RandomPlayer L			4.26 seconds	2.96 seconds	2.48 seconds
ime 9	Black	3930.67 seconds	Draw by threefold D			4.86 seconds	2.98 seconds	2.39 seconds
me 10	White	2967.02 seconds	Draw by threefold D			4.72 seconds	3.25 seconds	4.37 seconds
me 11	Black	4876.19 seconds	Draw by threefold D			7.05 seconds	3.34 seconds	6.92 seconds
me 12	White	1000.49 seconds	Loss vs RandomPlayer L			7.96 seconds	3.57 seconds	7.25 seconds
ame 13	Black	4072.18 seconds	Draw by threefold D			7.46 seconds	3.26 seconds	6.22 seconds
ime 14	White	3030.38 seconds	Loss vs RandomPlayer L			9.03 seconds	5.46 seconds	6.31 seconds
ame 15	Black	3796.70 seconds	Draw by threefold D			8.12 seconds	5.15 seconds	6.28 seconds
me 16	White	4229.05 seconds	Loss vs RandomPlayer L			5.71 seconds	6.00 seconds	8.71 seconds
me 17	Rlack							
me 17 me 18	White	4312.56 seconds	Draw by threefold D			6.26 seconds	7.40 seconds	7.83 seconds
		4914.68 seconds	Draw by threefold D			5.76 seconds	5.76 seconds	7.51 seconds
me 19	Black	696.66 seconds	Agent wins W			12.55 seconds	4.40 seconds	10.79 seconds
me 20	White	3796.07 seconds	Draw by threefold D			11.65 seconds	4.75 seconds	10.98 seconds
ime 21	Black	3026.96 seconds	Draw by threefold D			7.92 seconds	5.23 seconds	9.15 seconds
ame 22	White	4304.23 seconds	Loss vs RandomPlayer L			8.66 seconds	5.42 seconds	8.15 seconds
ime 23	Black	3474.70 seconds	Loss vs RandomPlayer L			8.99 seconds	4.77 seconds	10.15 seconds
me 24	White	6387.86 seconds	Loss vs RandomPlayer L			9.77 seconds	5.29 seconds	11.05 seconds
me 25	Black	1596.41 seconds	Agent wins W	1		9.37 seconds	6.75 seconds	6.60 seconds
me 26	White	4563.37 seconds	Draw by threefold D			8.21 seconds	7.32 seconds	6.11 seconds
me 27	Black	2678.82 seconds	Draw by threefold D			6.35 seconds	8.86 seconds	7.70 seconds
me 28	White	35.24 seconds	Draw by threefold D			6.60 seconds	9.94 seconds	3.91 seconds
me 29	Black	4781.32 seconds	Draw by threefold D			8.02 seconds	10.49 seconds	4.42 seconds
me 30	White	35.66 seconds	Draw by threefold D			7.05 seconds	9.93 seconds	7.81 seconds
me 31	Black	3210.97 seconds	Draw by threefold D			8.28 seconds	9.29 seconds	8.17 seconds
ime 32	White	36.21 seconds	Draw by threefold D			8.73 seconds	6.50 seconds	3.97 seconds
ime 33	Black	2997.62 seconds	Loss vs RandomPlayer L			4.46 seconds	8.26 seconds	4.22 seconds
ime 34	White	36.46 seconds	Draw by threefold D			4.57 seconds	14.04 seconds	4.53 seconds
ime 35	Black	3849.54 seconds	Loss vs RandomPlayer L			3.79 seconds	13.40 seconds	3.58 seconds
ame 36	White	36.32 seconds	Draw by threefold D			4.44 seconds	8.18 seconds	3.93 seconds
ame 37	Black	4038.06 seconds	Draw by threefold D			3.34 seconds	9.81 seconds	3.64 seconds
ime 38	White	3974.56 seconds	Draw by threefold D			4.97 seconds	9.53 seconds	3.97 seconds
ame 39	Black	2615.45 seconds	Draw by threefold D			5.45 seconds	15.61 seconds	3.37 seconds
ime 40	White	1378.12 seconds	Agent wins W	1		3.73 seconds	14.90 seconds	4.21 seconds
ame 41	Black	548.24 seconds	Draw by threefold D			4.19 seconds	15.76 seconds	4.33 seconds
me 42	White	4058.35 seconds	Draw by threefold D			4.04 seconds	20.94 seconds	3.97 seconds
ime 43	Black	3476.87 seconds	Draw by threefold D			3.64 seconds	20.85 seconds	1.52 seconds
me 44	White	4732.09 seconds	Draw by threefold D			3.79 seconds	17.69 seconds	3.42 seconds
me 45	Black	4283.14 seconds	Draw by threefold D			4.05 seconds	19.94 seconds	3.48 seconds
me 46	White	3216.90 seconds	Draw by threefold D			4.72 seconds	19.38 seconds	3.20 seconds
me 47	Black	3010.41 seconds	Draw by threefold Draw by threefold D			4.72 seconds 3.29 seconds	19.45 seconds	6.00 seconds
me 48	White	2267.68 seconds	Loss vs RandomPlayer L			3.98 seconds	14.83 seconds	5.45 seconds
me 48 me 49	Black	1735.90 seconds	Loss vs RandomPlayer L			4.09 seconds	15.53 seconds	2.71 seconds
me 50 me 51	White Black	4783.95 seconds 1187.95 seconds	Draw by threefold D Agent wins W	,		3.07 seconds 2.68 seconds	15.29 seconds 13.51 seconds	3.32 seconds 3.44 seconds
me 52	White	2288.63 seconds	Loss vs RandomPlayer L			3.15 seconds	12.79 seconds	3.76 seconds
me 53	Black	3859.42 seconds	Draw by threefold D			3.88 seconds	9.72 seconds	3.60 seconds
me 54	White	3090.32 seconds	Loss vs RandomPlayer L			4.52 seconds	10.44 seconds	1.59 seconds
me 55	Black	1689.12 seconds	Loss vs RandomPlayer L			4.73 seconds	11.92 seconds	1.73 seconds
me 56	White	4209.43 seconds	Draw by threefold D			3.71 seconds	11.52 seconds	1.70 seconds
me 57	Black	4064.47 seconds	Draw by threefold D			4.15 seconds	12.65 seconds	1.28 seconds
me 58	White	3310.69 seconds	Loss vs RandomPlayer L			2.61 seconds	13.27 seconds	1.63 seconds
me 59	Black	4468.98 seconds	Draw by threefold D			2.60 seconds	7.57 seconds	1.13 seconds
ime 60	White	3477.66 seconds	Draw by threefold D			2.53 seconds	10.31 seconds	1.11 seconds
me 61	Black	1005.93 seconds	Agent wins W			0.53 seconds	11.04 seconds	1.13 seconds
me 62	White	2252.34 seconds	Loss vs RandomPlayer L			0.83 seconds	12.49 seconds	1.33 seconds
ame 63	Black	3748.31 seconds	Draw by threefold D			0.66 seconds	12.54 seconds	1.00 seconds
ame 64	White	2003.48 seconds	Agent wins W	1		0.52 seconds	13.38 seconds	1.00 seconds
ame 65	Black	1908.34 seconds	Agent wins W	,		0.71 seconds	12.33 seconds	1.00 seconds
ame 66	White	3090.32 seconds	Draw by threefold D			0.25 seconds	8.02 seconds	1.25 seconds
ame 67	Black	841.19 seconds	Agent wins W			2.40 seconds	7.92 seconds	1.21 seconds

Game 68 Game 69						
Game 69	White	3955.29 seconds	Draw by threefold D	1.84 seconds	6.36 seconds	1.22 seconds
	Black	3310.69 seconds	Draw by threefold D	2.87 seconds	7.32 seconds	1.07 seconds
Game 70	White	2080.51 seconds	Loss vs RandomPlayer L	2.54 seconds	6.09 seconds	1.23 seconds
Same 71	Black	3193.37 seconds	Agent wins W	1.94 seconds	6.53 seconds	1.04 seconds
Same 72	White	1731.54 seconds	Loss vs RandomPlaver L	2.01 seconds	5.68 seconds	1.13 seconds
Same 73	Black	4377.01 seconds	Loss vs RandomPlayer L	2.61 seconds	5.46 seconds	1.04 seconds
Same 74	White	1487.78 seconds	Agent wins W	3.36 seconds	5.09 seconds	1.05 seconds
Same 75	Black	3036.46 seconds	Draw by threefold D	2.06 seconds	4.08 seconds	1.01 seconds
Same 76	White	2113.5 seconds	Agent wins W	1.73 seconds	3.59 seconds	1.15 seconds
Game 77	Black					
		3600.36 seconds		2.69 seconds	1.61 seconds	1.02 seconds
Same 78	White	4327.53 seconds	Draw by threefold D	2.27 seconds	4.66 seconds	0.90 seconds
Game 79	Black	1131.68 seconds	Loss vs RandomPlayer L	2.32 seconds	3.80 seconds	0.80 seconds
Game 80	White	3634.76 seconds	Agent wins W	2.80 seconds	3.63 seconds	0.86 seconds
Game 81	Black		Draw by threefold D	0.80 seconds	4.17 seconds	0.81 seconds
		4632.33 seconds				
Game 82	White	4724.38 seconds	Draw by threefold D	1.03 seconds	4.15 seconds	1.08 seconds
Game 83	Black	4896.75 seconds	Loss vs RandomPlayer L	0.76 seconds	3.84 seconds	1.56 seconds
Same 84	White	2509.45 seconds	Agent wins W	0.83 seconds	3.42 seconds	0.78 seconds
			Loss vs RandomPlayer L			
Same 85	Black	1140.98 seconds		2.72 seconds	4.41 seconds	0.76 seconds
Game 86	White	3383.52 seconds	Agent wins W	2.18 seconds	5.01 seconds	0.75 seconds
Same 87	Black	1160.32 seconds	Agent wins W	2.34 seconds	2.07 seconds	0.66 seconds
Game 88	White	2818.4 seconds	Draw by threefold D	0.89 seconds	2.52 seconds	0.67 seconds
Game 89	Black	2906.72 seconds	Draw by threefold D	2.71 seconds	2.22 seconds	0.78 seconds
Game 90	White	3075.87 seconds	Draw by threefold D	2.18 seconds	2.28 seconds	0.90 seconds
Game 91	Black	1008.87 seconds	Agent wins W	1.91 seconds	1.71 seconds	0.75 seconds
Game 92	White	546.22 seconds	Draw by threefold D	0.80 seconds	2.38 seconds	0.81 seconds
Game 93	Black	3755.38 seconds	Draw by threefold D	1.99 seconds	2.38 seconds	0.75 seconds
Game 94	White	2787.93 seconds	Draw by threefold D	0.83 seconds	2.14 seconds	0.84 seconds
Game 95	Black	3926.81 seconds	Draw by threefold D	2.02 seconds	2.22 seconds	0.78 seconds
Game 96	White	1885.63 seconds	Draw by threefold D	2.47 seconds	2.28 seconds	0.82 seconds
Game 97	Black	4076.97 seconds	Draw by threefold D	2.45 seconds	2.06 seconds	1.00 seconds
Game 98	White	2108.7 seconds	Loss vs RandomPlayer L	2.42 seconds	0.50 seconds	1.01 seconds
Game 99	Black	2114.63 seconds	Loss vs RandomPlayer L	2.30 seconds	0.45 seconds	1.01 seconds
Game 100	White	1395 seconds	Agent wins W	2.47 seconds	0.82 seconds	1.41 seconds
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				2.06 seconds	0.65 seconds	1.31 seconds
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				2.69 seconds	1.01 seconds	1.42 seconds
				3.56 seconds	0.96 seconds	0.46 seconds
				4.58 seconds	1.22 seconds	1.37 seconds
				3.66 seconds	0.97 seconds	1.23 seconds
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					0.97 seco		0.45 seconds	2.02 seconds
					1.27 sec		0.42 seconds	2.18 seconds
					0.50 seco		0.39 seconds	0.81 seconds
					0.52 seco	onds	0.54 seconds	2.18 seconds
					0.45 seco		0.41 seconds	2.21 seconds
					0.40 seco	onds	0.45 seconds	1.80 seconds
					0.50 sec		0.55 seconds	0.82 seconds
					0.45 seco		0.44 seconds	2.41 seconds
					0.54 seco	onds	0.49 seconds	2.14 seconds
					0.47 seco	onds	0.49 seconds	0.81 seconds
					0.54 seco		0.39 seconds	1.04 seconds
					0.55 seco		0.52 seconds	0.96 seconds
					0.34 seco		0.43 seconds	0.95 seconds
					0.54 seco		0.44 seconds	0.71 seconds
					0.40 seco	onds	0.62 seconds	0.77 seconds
					0.21 seco	onds	0.40 seconds	0.76 seconds
					0.47 seco		0.55 seconds	2.22 seconds
					0.49 seco		0.57 seconds	0.90 seconds
					0.46 seco		0.46 seconds	2.07 seconds
					0.22 seco	onds	0.71 seconds	1.68 seconds
					0.45 seco	onds	0.43 seconds	1.11 seconds
					0.26 seco		0.69 seconds	0.55 seconds
					0.37 seco	unus	0.22 seconds	1.42 seconds
					0.12 seco		0.12 seconds	1.73 seconds
					0.16 seco	onds	0.11 seconds	1.49 seconds
					0.23 seco		0.10 seconds	1.46 seconds
					0.22 seco	onds	0.17 seconds	1.65 seconds
					0.20 seco		0.20 seconds	1.72 seconds
					0.17 seco		0.19 seconds	1.58 seconds
					0.15 seco	onds	0.21 seconds	1.63 seconds
					0.14 seco	onds	0.26 seconds	1.38 seconds
					0.12 seco		0.18 seconds	1.73 seconds
					0.18 seco		0.36 seconds	1.62 seconds
					0.08 seco		0.29 seconds	1.37 seconds
					0.16 seco		0.70 seconds	1.28 seconds
					0.16 seco	onds	0.52 seconds	1.47 seconds
					0.15 seco	onds	0.34 seconds	1.61 seconds
					0.15 seco		0.60 seconds	1.39 seconds
					0.15 seco		0.60 seconds	1.38 seconds
					0.20 seco	onds	0.63 seconds	1.47 seconds
					0.22 seco	onds		1.32 seconds
					0.15 seco	onds		1.47 seconds
					0.15 seco			1.57 seconds
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					0.15 seco			
					0.18 seco			1.40 seconds
					0.19 seco	onds		1.58 seconds
					0.11 seco	onds		1.34 seconds
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