

12-2-24

Experiment 1

Postlab :

Q1] What is the easiest trick to win Tic-Tac-Toe?

Ans The easiest trick to win Tic-Tac-Toe is to play as the first player and place the symbol in the centre square. This ~~means~~ move maximises the chances of winning if the opponent does not make best moves.

Q2] What is the algorithm to follow to win a 5x5 Tic-Tac-Toe?

Ans There is no guaranteed algorithm to win a 5x5 Tic-Tac-Toe since the game becomes more complex with the larger grid size. However, strategies from regular 3x3 Tic-Tac-Toe can still be applied, such as aiming to create a winning line while blocking the opponents attempts to do the same.

Q3] Is there a way to never lose at Tic-Tac-Toe?

Ans While, it is theoretically possible to never lose, achieving this in practicality relies on the opponent making mistakes or not following optimal strategies. The game has a finite number of possible board positions, so a perfect player could force a draw every time against the opponent.

Q4]

Ans

What can Tic-Tac-Toe help you with?

It can help with several cognitive skills, including strategic thinking, pattern recognition, decision-making, and planning ahead. It is often used as a teaching tool for basic game theory and as a simple introduction to more complex board games. Additionally, playing Tic Tac Toe can also be a fun way to pass time and engage in friendly competition.