Prime Squares Game

KitKat Addicts

Game Description

- The game progresses in the form of tic-tac-toe
- Start with an empty 3 x 3 n square
- Each player alternately fills a square with a number (except the last move is given to player 2)
- Whenever a number fills allows a 3 digit number to form (along row, column or diagonal, in any direction), the number of primes formed as a consequence are added to the player's score
- 0 is not allowed to be placed in any of the border cells

7	6	9
9	5	3
7	9	7

5	

Player 1	Player 2
Plays 5 at center	Total = 0 points
Total = 0 points	

6	
5	

Player 1	Player 2
Total = 0 points	Plays 6 at center top
	Total = 0 points

6	
5	
9	

Player 1	Player 2
Plays 9 at center bottom	Total = 0 points
659 is a prime(+1)	
Total = 1 points	

6	9
5	
9	

Player 1	Player 2
Total = 1 points	Plays 9 at right top
	Total = 0 points

7	6	9
	5	
	9	

Player 1	Player 2
Plays 7 at left top	Total = 0 points
769 is a prime(+1)	
Total = 2 points	

7	6	9
	5	
	9	7

Player 1	Player 2
Total = 2 points	Plays 7 at right bottom
	757 is a prime(+1)
	757 is a prime(+1) (Why?)
	Total = 2 points

7	6	9
	5	
7	9	7

Player 1	Player 2
Plays 7 at left bottom	Total = 2 points
797 is a prime(+1)	
797 is a prime(+1)	
Total = 4 points	

The disadvantage of Player 2 is evident, how to rectify it?

By giving both the last two turns to Player 2

7	6	9
9	5	
7	9	7

Player 1	Player 2
Total = 4 points (locked)	Plays 9 at left center
	797 is a prime(+1)
	797 is a prime(+1)
	Total = 4 points

Gameplay In Acton - Final Move

7	6	9
9	5	3
7	9	7

Player 1	Player 2
Total = 4 points (locked)	Plays 3 at right center
	953 is a prime(+1)
	359 is a prime(+1)
	937 is a prime(+1)
	739 is a prime(+1)
	Total = 8 points

Feature Upgrades

- Two games that alternates the player that starts. Winner is the player with the maximum sum of points across the two games.
- N x N squares instead of 3 x 3
- Consider attributing points for primes formed along the diagonal of length != N
- Sudoku Style Game:
 - o In 3x3: no repetition of digits anywhere
 - In NxN (N <= 9): no repetition of digits along rows/columns
- Additional points if sum of numbers along the row/column/diagonal forms a prime
- Additional points if the final square is a magic square