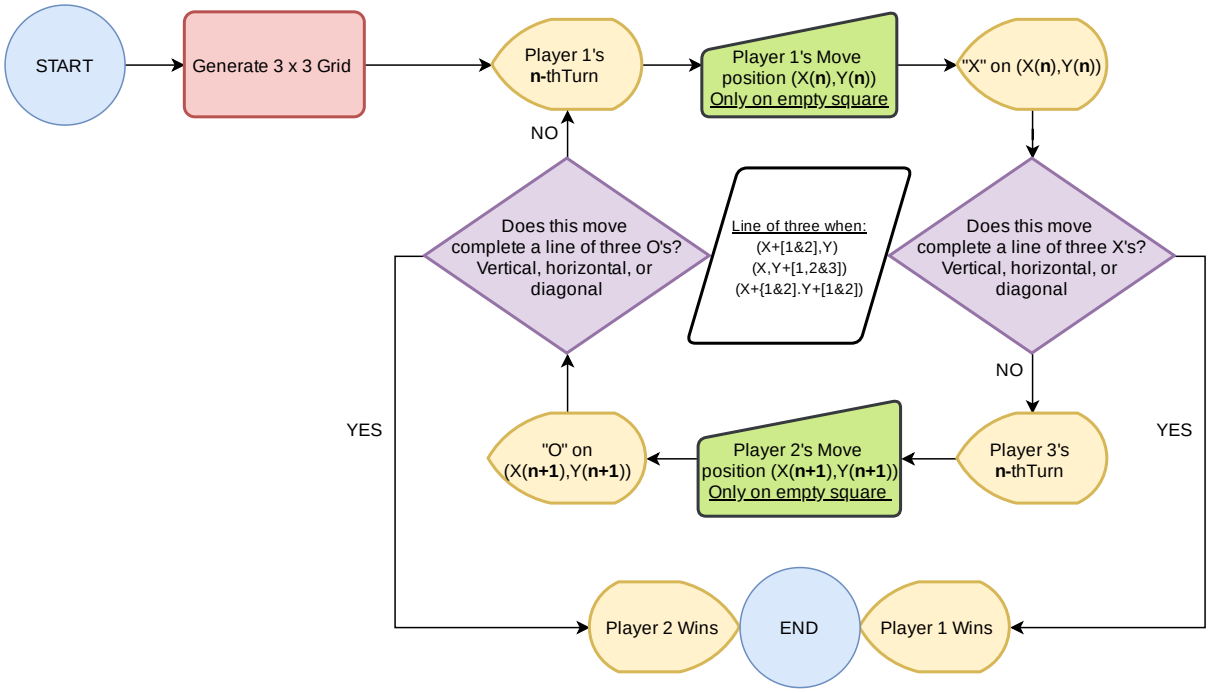
START
Generate 3 x 3 Grid
Player 1's n-thTurn
Player 1's Move position (X(n),Y(n)) Only on empty square
"X" on (X(n),Y(n))
NO
Does this move complete a line of three O's? Vertical, horizontal, or diagonal
Line of three when: (X+[1&2],Y) (X,Y+[1,2&3]) (X+{1&2].Y+[1&2])
Does this move complete a line of three X's? Vertical, horizontal, or diagonal
NO
YES
YES
"O" on (X(n+1),Y(n+1))
Player 2's Move position (X(n+1),Y(n+1)) Only on empty square
Player 3's n-thTurn
Player 2 Wins
END
Player 1 Wins