```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace TicTacToe
class Program
 public static char[,] board =
  {'1', '2', '3'},
  {'4', '5', '6'},
  {'7', '8', '9'}
 };
 public static char[,] newBoard =
  {'1', '2', '3'},
{'4', '5', '6'},
  {'7', '8', '9'}
 public static void Board()
 {
 Console.WriteLine("
                                     ");
 Console.WriteLine(" {0} | {1} | {2} ", board[0, 0], board[0, 1], board[0, 2]);
 Console.WriteLine("
 Console.WriteLine("
                                     ");
                        {0} | {1} | {2} ", board[1, 0], board[1, 1], board[1, 2]);
 Console.WriteLine("
 Console.WriteLine("
                                                   _");
 Console.WriteLine("
                                     ");
 Console.WriteLine(" {0} | {1} | {2} ", board[2, 0], board[2, 1], board[2, 2]);
 Console.WriteLine("
 public static void Main(string[] args)
 {
 bool player1Turn = true;
 bool player2Turn = false;
 bool game = true;
 bool win = false;
 do
  while(player1Turn == true)
  {
   bool wrongInput = false;
   wrongInputFix:
   try
   Console.Clear();
   Board();
   Console.Write("Player 1: Choose your field! ");
   string player1Input = Console.ReadLine();
   int choice = int.Parse(player1Input);
   switch (choice)
   {
    case 1:
    if (board[0, 0] != 'O')
     board[0, 0] = 'X';
     }
     else
     Console.WriteLine("Pick a different box!");
     Console.WriteLine("Press anything to continue.");
     wrongInput = true;
```

```
Console.ReadKey();
break;
case 2:
if (board[0, 1] != 'O')
board[0, 1] = X';
}
else
Console.WriteLine("Pick a different box!");
Console.WriteLine("Press anything to continue.");
wrongInput = true;
Console.ReadKey();
break;
case 3:
if (board[0, 2] != 'O')
board[0, 2] = 'X';
}
else
Console.WriteLine("Pick a different box!");
Console.WriteLine("Press anything to continue.");
wrongInput = true;
Console.ReadKey();
}
break;
case 4:
if (board[1, 0] != 'O')
board[1, 0] = 'X';
}
else
{
Console.WriteLine("Pick a different box!");
Console.WriteLine("Press anything to continue.");
wrongInput = true;
Console.ReadKey();
break;
case 5:
if (board[1, 1] != 'O')
board[1, 1] = 'X';
}
else
Console.WriteLine("Pick a different box!");
Console.WriteLine("Press anything to continue.");
wrongInput = true;
Console.ReadKey();
}
break;
case 6:
if (board[1, 2] != 'O')
board[1, 2] = X';
}
else
Console.WriteLine("Pick a different box!");
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```
Console.WriteLine("Press anything to continue.");
 wrongInput = true;
 Console.ReadKey();
 }
 break;
case 7:
 if (board[2, 0] != 'O')
 board[2, 0] = 'X';
 }
 else
 Console.WriteLine("Pick a different box!");
 Console.WriteLine("Press anything to continue.");
 wrongInput = true;
 Console.ReadKey();
 break;
case 8:
 if (board[2, 1] != 'O')
 board[2, 1] = 'X';
 }
 else
 Console.WriteLine("Pick a different box!");
 Console.WriteLine("Press anything to continue.");
 wrongInput = true;
 Console.ReadKey();
 break;
case 9:
 if (board[2, 2] != 'O')
 {
 board[2, 2] = 'X';
 }
 else
 Console.WriteLine("Pick a different box!");
 Console.WriteLine("Press anything to continue.");
 wrongInput = true;
 Console.ReadKey();
 }
 break;
 Console.WriteLine("Please enter a number between 0-9");
 Console.ReadKey();
 break;
if (wrongInput == true)
wrongInput = false;
goto wrongInputFix;
}
foreach (char c in board)
if (((board[0, 0] == 'X') && (board[0, 1] == 'X') && (board[0, 2] == 'X'))
 \| ((board[1, 0] == 'X') \&\& (board[1, 1] == 'X') \&\& (board[1, 2] == 'X')) \|
 || ((board[2, 0] == 'X') && (board[2, 1] == 'X') && (board[2, 2] == 'X'))
 \| ((board[0, 0] == 'X') \&\& (board[1, 0] == 'X') \&\& (board[2, 0] == 'X')) \|
 \| ((board[0, 1] == 'X') \&\& (board[1, 1] == 'X') \&\& (board[2, 1] == 'X')) \|
 || ((board[0, 2] == 'X') && (board[1, 2] == 'X') && (board[2, 2] == 'X'))
 || ((board[0, 0] == 'X') && (board[1, 1] == 'X') && (board[2, 2] == 'X'))
```

```
\| ((board[2, 0] == 'X') \&\& (board[1, 1] == 'X') \&\& (board[0, 2] == 'X')) \|
  Console.Clear();
  Board();
  Console.WriteLine("Player 1 has won!");
  Console.WriteLine("Press anything to continue.");
  Console.ReadKey();
  win = true;
  player1Turn = false;
  break;
  }
  else if (choice >= 9)
  }
  else
  player2Turn = true;
  player1Turn = false;
  if (win == true)
   player1Turn = false;
   player2Turn = false;
 }
 }
catch (FormatException)
 Console.WriteLine("Please enter a number between 0-9");
 Console.WriteLine("Press anything to continue.");
 Console.ReadKey();
 break;
}
}
while (player2Turn == true)
bool wrongInput = false;
wrongInputFix:
try
 Console.Clear();
 Board();
 string player2Input;
 Console.Write("Player 2: Choose your field! ");
 player2Input = Console.ReadLine();
 int choice = int.Parse(player2Input);
 switch (choice)
  case 1:
  if (board[0, 0] != 'X')
   board[0, 0] = 'O';
  }
  else
  {
   Console.WriteLine("Pick a different box!");
   Console.WriteLine("Press anything to continue.");
   wrongInput = true;
   Console.ReadKey();
  break;
  case 2:
```

```
if (board[0, 1] != 'X')
board[0, 1] = '0';
}
else
{
Console.WriteLine("Pick a different box!");
Console.WriteLine("Press anything to continue.");
wrongInput = true;
Console.ReadKey();
break:
case 3:
if (board[0, 2] != 'X')
board[0, 2] = 'O';
}
else
Console.WriteLine("Pick a different box!");
Console.WriteLine("Press anything to continue.");
wrongInput = true;
Console.ReadKey();
break;
case 4:
if (board[1, 0] != 'X')
board[1, 0] = '0';
}
else
Console.WriteLine("Pick a different box!");
Console.WriteLine("Press anything to continue.");
wrongInput = true;
Console.ReadKey();
}
break;
case 5:
if (board[1, 1] != 'X')
board[1, 1] = 'O';
}
else
{
Console.WriteLine("Pick a different box!");
Console.WriteLine("Press anything to continue.");
wrongInput = true;
Console.ReadKey();
}
break;
case 6:
if (board[1, 2] != 'X')
{
board[1, 2] = 'O';
}
else
Console.WriteLine("Pick a different box!");
Console.WriteLine("Press anything to continue.");
wrongInput = true;
Console.ReadKey();
}
```

```
break;
case 7:
 if (board[2, 0] != 'X')
 board[2, 0] = '0';
 }
 else
 Console.WriteLine("Pick a different box!");
 Console.WriteLine("Press anything to continue.");
 wrongInput = true;
 Console.ReadKey();
 break;
case 8:
 if (board[2, 1] != 'X')
 board[2, 1] = '0';
 }
 else
 Console.WriteLine("Pick a different box!");
 Console.WriteLine("Press anything to continue.");
 wrongInput = true;
 Console.ReadKey();
 }
 break;
case 9:
 if (board[2, 2] != 'X')
 board[2, 2] = '0';
 else
 {
 Console.WriteLine("Pick a different box!");
 Console.WriteLine("Press anything to continue.");
 wrongInput = true;
 Console.ReadKey();
 break;
default:
 Console.WriteLine("Please enter a number between 0-9");
 Console.WriteLine("Press anything to continue.");
 Console.ReadKey();
 break;
}
if(wrongInput == true)
wrongInput = false;
goto wrongInputFix;
}
foreach (char c in board)
if (((board[0, 0] == 'O') \&\& (board[0, 1] == 'O') \&\& (board[0, 2] == 'O'))
 || ((board[1, 0] == 'O') && (board[1, 1] == 'O') && (board[1, 2] == 'O'))
 || ((board[2, 0] == 'O') && (board[2, 1] == 'O') && (board[2, 2] == 'O'))
 \| ((board[0, 0] == 'O') \&\& (board[1, 0] == 'O') \&\& (board[2, 0] == 'O')) \|
 || ((board[0, 1] == 'O') && (board[1, 1] == 'O') && (board[2, 1] == 'O'))
 || ((board[0, 2] == 'O') && (board[1, 2] == 'O') && (board[2, 2] == 'O'))
 || ((board[0, 0] == 'O') && (board[1, 1] == 'O') && (board[2, 2] == 'O'))
 || ((board[2, 0] == 'O') && (board[1, 1] == 'O') && (board[0, 2] == 'O')))
{
```

```
Console.Clear();
   Board();
   Console.WriteLine("Player 2 has won!");
   Console.WriteLine("Press anything to continue.");
   Console.ReadKey();
   win = true;
   player1Turn = false;
   break;
  else if (choice >= 9)
  {}
  else
   player1Turn = true;
   player2Turn = false;
   if (win == true)
   player1Turn = false;
   player2Turn = false;
  }
 }
 catch (FormatException)
 Console.WriteLine("Please enter a number between 0-9");
 Console.ReadKey();
 break;
}
if (win == true)
{
 Console. WriteLine ("Press any key to play again or enter quit to end the game");
 string play = Console.ReadLine();
 if (play == "quit" || play == "Quit" || play == "QUIT")
 {
 Console.WriteLine("Thanks for playing!");
 Console.ReadKey();
 game = false;
 }
 else
 Reset();
 Console.Clear();
 win = false;
 player1Turn = true;
while (game);
```

```
}
public static void Reset()
{
 board = newBoard;
}
}
```