```
#include <iostream>
using namespace std;
char board[3][3] = {
  '1','2','3',
  '4','5','6',
  '7','8','9'
};
void displayBoard() {
  printf("----\n");
  for (int i = 0; i < 3; i++) {
    for (int j = 0; j < 3; j++) {
       printf("| %c |", board[i][j]);
    }
    printf("\n");
    printf("----\n");
  }
}
void mark(char markA, int choice) {
  int row = (choice - 1) / 3;
  int col = (choice - 1) % 3;
  if (board[row][col] != 'X' && board[row][col] != 'O') {
    board[row][col] = markA;
  } else {
    cout << "Spot already taken! Try again.\n";</pre>
  }
  displayBoard();
```

```
}
char checkWin() {
  for (int i = 0; i < 3; i++) {
     if (board[i][0] == board[i][1] && board[i][1] == board[i][2])
       return board[i][0];
  }
  for (int j = 0; j < 3; j++) {
     if (board[0][j] == board[1][j] && board[1][j] == board[2][j])
       return board[0][j];
  }
  if (board[0][0] == board[1][1] && board[1][1] == board[2][2])
     return board[0][0];
  if (board[0][2] == board[1][1] && board[1][1] == board[2][0])
     return board[0][2];
  return'';
}
int main() {
  char markA = 'X';
  displayBoard();
  for (int turn = 0; turn < 9; turn++) {
     int choice;
     cout << "Player " << markA << ", choose a spot: ";</pre>
     cin >> choice;
```

```
mark(markA, choice);

char winner = checkWin();

if (winner == 'X' | | winner == 'O') {
    cout << "Player " << winner << " wins!\n";
    return 0;
}

markA = (markA == 'X') ? 'O' : 'X';
}

cout << "It's a draw!\n";
    return 0;
}</pre>
```