#include <stdio.h>

#include <conio.h>

#include <windows.h>

#include <stdlib.h>

char square[10] = {'0', '1', '2', '3', '4', '5', '6', '7', '8', '9'};

int checkWin();

void drawBoard();

int main()

{

int player = 1, i, choice;

char mark; // mark will be either X or O

do

{

drawBoard();

player = (player % 2) ? 1 : 2;

printf("Player %d , enter the choice: ", player);

scanf("%d", &choice);

mark = (player == 1) ? 'X' : 'O';

if (choice == 1 && square[1] == '1')

square[1] = mark;

else if (choice == 2 && square[2] == '2')

square[2] = mark;

else if (choice == 3 && square[3] == '3')

square[3] = mark;

else if (choice == 4 && square[4] == '4')

square[4] = mark;

else if (choice == 5 && square[5] == '5')

square[5] = mark;

else if (choice == 6 && square[6] == '6')

square[6] = mark;

else if (choice == 7 && square[7] == '7')

square[7] = mark;

else if (choice == 8 && square[8] == '8')

square[8] = mark;

else if (choice == 9 && square[9] == '9')

square[9] = mark;

else

{

printf("Invalid option !");

player--;

getch();

}

i = checkWin();

player++;

} while (i == -1);

drawBoard();

if (i == 1)

{

printf("Player %d won", --player);

}

else

{

printf("Game draw");

}

getch();

return 0;

}

int checkWin()

{

if (square[1] == square[2] && square[2] == square[3])

return 1;

else if (square[4] == square[5] && square[5] == square[6])

return 1;

else if (square[7] == square[8] && square[8] == square[9])

return 1;

else if (square[1] == square[4] && square[4] == square[7])

return 1;

else if (square[2] == square[5] && square[5] == square[8])

return 1;

else if (square[3] == square[6] && square[6] == square[9])

return 1;

else if (square[1] == square[5] && square[5] == square[9])

return 1;

else if (square[3] == square[5] && square[5] == square[7])

return 1;

else if (square[1] != '1' && square[2] != '2' && square[3] != '3' && square[4] != '4' && square[5] != '5' && square[6] != '6' && square[7] != '7' && square[8] != '8' && square[9] != '9')

return 0;

else

return -1;

}

void drawBoard()

{

system("cls");

printf("\n\n\t BINGO \n\n");

printf("Player1 (X) - Player2 (O)\n\n\n");

printf(" | | \n");

printf(" %c | %c | %c \n", square[1], square[2], square[3]);

printf("\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_ \n");

printf(" | | \n");

printf(" %c | %c | %c \n", square[4], square[5], square[6]);

printf("\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_ \n");

printf(" | | \n");

printf(" %c | %c | %c \n", square[7], square[8], square[9]);

printf("\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_ \n");

printf(" | | \n");

}