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#include <stdio.h>
#include <conio.h>
void printBoard();
int checkWin();
void system();

char board[]={'0','1','2','3','4','5','6','7','8'};
int main(){
    int player=1,input,status=-1;
    int result;
    printBoard();

    while (status== -1)
    {
        player=(player%2==0) ? 2 : 1;
        char mark=(player==1) ? 'X' : 'Y';
        printf("Enter Number For Player %d\n",player);
        scanf("%d",&input);
        if(input<1 || input>8){
            printf("invalid input");
        }

        board[input]=mark;
        printBoard();

        result=checkWin();

        if(result==1){
            printf("\tCongrats! Player (%d)\n\tYou are the Winner",player);
            return;
        }else if(result==0){
            printf("draw");
            return;
        }

        player++;
    }
}

void printBoard(){
    system("cls");
    printf("\n\n");
    printf("\n\t==> TIC TAC TOE<== \n\t  GAME START \n\n");
    printf("\t  |  |  \n");
    printf("\t  %c | %c | %c \n",board[0],board[1],board[2]);
    printf("\t_____|_____|_____\n");
    printf("\t  |  |  \n");
    printf("\t  %c | %c | %c \n",board[3],board[4],board[5]);
    printf("\t_____|_____|_____\n");
    printf("\t  |  |  \n");
    printf("\t  %c | %c | %c \n",board[6],board[7],board[8]);
    printf("\t  |  |  \n");
    printf("\n\n");
}

```

```

int checkWin(){

    if(board[0]==board[1] && board[1]==board[2]){
        return 1;
    }
    if(board[0]==board[3] && board[3]==board[6]){
        return 1;
    }
    if(board[6]==board[7] && board[7]==board[8]){
        return 1;
    }
    if(board[2]==board[5] && board[5]==board[8]){
        return 1;
    }
    if(board[0]==board[4] && board[4]==board[8]){
        return 1;
    }
    if(board[2]==board[4] && board[4]==board[6]){
        return 1;
    }
    if(board[1]==board[4] && board[4]==board[7]){
        return 1;
    }
    if(board[4]==board[5] && board[5]==board[6]){
        return 1;
    }

    int count=0;
    for (int i=1; i<9;i++)
    {
        if(board[i]=='X' || board[i]=='Y'){
            count++;
        }
    }

    if(count==8){
        return 0;
    }
    return -1;
}

```