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// GitHub URL
// https://github.com/nkd3v/programming-fundamental/blob/master/labs/lab5/game01.c
#include <windows.h>
#include <stdio.h>
#include <conio.h>
#define DELTA TIME 500
#define SCREEN_HEIGHT 23
#define SCREEN_WIDTH 80
void gotoxy(int x, int y) {
    COORD c = \{ (SHORT)x, (SHORT)y \};
    SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE), c);
}
void draw_ship(int x, int y) {
    gotoxy(x, y);
    printf("<-0->");
}
void erase_ship(int x, int y) {
    gotoxy(x, y);
    printf("
}
void move_ship(int *x, int *y, int dx, int dy) {
    erase_ship(*x, *y);
    if (*x + dx >= 0 \&\& *x + dx <= SCREEN_WIDTH)
        *x += dx;
    if (*y + dy >= 0 && *y + dy <= SCREEN_HEIGHT)
        *y += dy;
    draw_ship(*x, *y);
}
int main() {
    char ch = ' ';
    int x = 38, y = 20;
    draw_ship(x, y);
    do {
        if (_kbhit()) {
            ch = _getch();
            if (ch == 'w')
                move_ship(\delta x, \delta y, 0, -1);
            else if (ch == 's')
                move_ship(&x, &y, 0, 1);
            else if (ch == 'a')
                move_ship(\delta x, \delta y, -1, 0);
            else if (ch == 'd')
                 move_ship(&x, &y, 1, 0);
            fflush(stdin);
        }
        Sleep(DELTA_TIME);
    } while (ch != 'x');
    return 0;
}
```