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#include<stdio.h>
#include<Windows.h>
#include<conio.h>

void setcolor(int fg, int bg)
{
    HANDLE hConsole = GetStdHandle(STD_OUTPUT_HANDLE);
    SetConsoleTextAttribute(hConsole, bg*16 + fg);
}

void setcursor(bool visible)
{
    HANDLE console = GetStdHandle(STD_OUTPUT_HANDLE);
    CONSOLE_CURSOR_INFO lpCursor;
    lpCursor.bVisible = visible;
    lpCursor.dwSize = 20;
    SetConsoleCursorInfo(console, &lpCursor);
}

void draw_ship(int x, int y)
{
    setcolor(2, 4);
    COORD c = { x, y };
    SetConsoleCursorPosition(
        GetStdHandle(STD_OUTPUT_HANDLE), c);
    printf("<0> ");
}

void draw_bullet(int x, int y)
{
    setcolor(1, 0);
    COORD c = { x, y };
    SetConsoleCursorPosition(
        GetStdHandle(STD_OUTPUT_HANDLE), c);
    printf("0");
}

void erase_bullet(int x, int y)
{
    setcolor(0, 0);
    COORD c = { x, y };
    SetConsoleCursorPosition(
        GetStdHandle(STD_OUTPUT_HANDLE), c);
    printf("");
}

void erase_ship(int x, int y)
{
    setcolor(0, 0);
    COORD c = { x, y };
    SetConsoleCursorPosition(
        GetStdHandle(STD_OUTPUT_HANDLE), c);
    printf(" ");
}

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}

void bullet_shoot(int x, int y)
{
    if(y > 0)
    {
        erase_bullet(x, y); draw_bullet(x, -y);
    }
    else
    {
        erase_bullet(x, y);
    }
}

int main()
{
    char ch = ' ';
    int x, y;
    x = 23;
    y = 25;
    int bull_x[5];
    int bull_y[5];
    int bullet_state[5];
    int r_state = 0, l_state = 0, stop = 0;
    int i = 0;
    setcursor(0);
    do
    {
        if(_kbhit())
        {
            ch = _getch();
            if(ch == 'a')
            {
                r_state = 0; l_state = 1; stop = 0;
            }
            if(ch == 'd')
            {
                r_state = 1; l_state = 0; stop = 0;
            }
            if(ch == 's')
            {
                r_state = 0; l_state = 0; stop = 1;
            }
            if(ch == ' ' && i < 5)
            {
                bull_y[i] = 24;
                bull_x[i] = x + 3;
                bullet_state[i] = 1;
                i++;
            }
            else if(i == 5 && (bullet_state[0] == 0 || bullet_state[1] == 0 || bullet_state[2] == 0 ||
bullet_state[3] == 0 || bullet_state[4] == 0))
            {

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        i = 0;
    }
    fflush(stdin);
}

if(l_state == 1 && x > 0)
{
    erase_ship(x, y); draw_ship(--x, y); Sleep(20);
}
elseif(l_state == 1 && x <= 0)
{
    Sleep(20);
}
if(r_state == 1 && x < 113)
{
    erase_ship(x, y); draw_ship(++x, y); Sleep(20);
}
elseif(r_state == 1 && x >= 113)
{
    Sleep(20);
}
if(stop == 1)
{
    Sleep(20);
}
if(bullet_state[0] == 1)
{
    bullet_shoot(bull_x[0], -bull_y[0]);
    if(bull_y[0] <= 0)
    {
        bullet_state[0] = 0;
    }
}
if(bullet_state[1] == 1)
{
    bullet_shoot(bull_x[1], -bull_y[1]);
    if(bull_y[1] <= 0)
    {
        bullet_state[1] = 0;
    }
}
if(bullet_state[2] == 1)
{
    bullet_shoot(bull_x[2], -bull_y[2]);
    if(bull_y[2] <= 0)
    {
        bullet_state[2] = 0;
    }
}
if(bullet_state[3] == 1)
{
    bullet_shoot(bull_x[3], -bull_y[3]);
    if(bull_y[3] <= 0)
    {

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        bullet_state[3] = 0;
    }
}
if(bullet_state[4] == 1)
{
    bullet_shoot(bull_x[4], -bull_y[4]);
    if(bull_y[4] <= 0)
    {
        bullet_state[4] = 0;
    }
}
} while(ch != 'x');
return 0;
}

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