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Факультет автоматизации и информатики

Кафедра автоматизации систем управления

КУРСОВАЯ РАБОТА

по программированию

Разработка графического редактора на языке С++ с использованием механизмов ООП

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Задание кафедры

Реализовать на языке С++ векторный графический редактор. В ходе выполнения работы обязательно применение объектно-ориентированных возможностей языка С++: наследования и динамического полиморфизма. Каждый тип элемента схемы должен быть представлен в программе в виде отдельного класса, который наследован от базового класса «графический элемент» (имеющего чисто виртуальную функцию прорисовки). Также необходим один класс «поле рисования», который содержит все графические элементы и отвечает за вызов функций прорисовки. Хранение графических элементов осуществляется с использованием контейнеров стандартной библиотеки С++.

Расположение фигур на шахматной доске

Аннотация

С. 46. Ил. 7. Литература 3 назв. Прил. 1;

В работе описывается графический редактор, позволяющий добавлять, перемещать, удалять фигуры на шахматной доске.

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Введение

Векторный графический редактор – это программа, позволяющая пользователю создавать и редактировать векторные изображения непосредственно на экране компьютера, а также сохранять их.

Векторная графика – это способ представления объектов и изображений, основанный на математическом описании элементарных геометрических объектов.

В этой работе реализован векторный графический редактор. Для перемещения доступны все шахматные фигуры. Так же можно обновить сразу всю шахматную доску с помощью кнопки “Обновить”. Сохраняются изображения в файл с расширением «xml».

1 Диаграмма классов

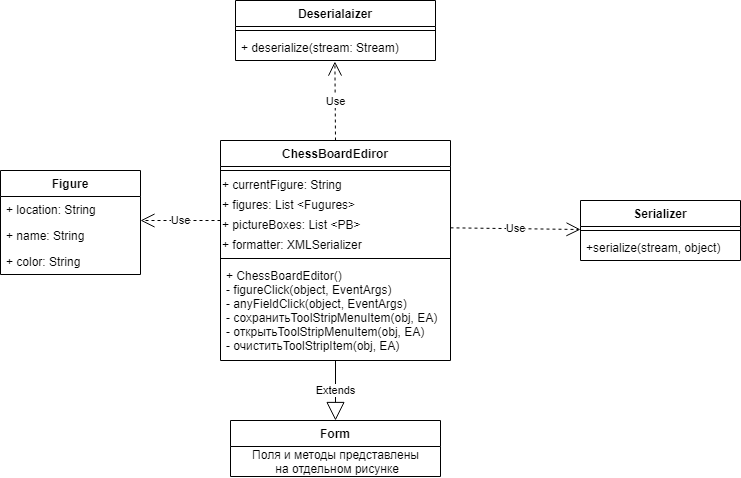


Рисунок 1 – Диаграмма классов

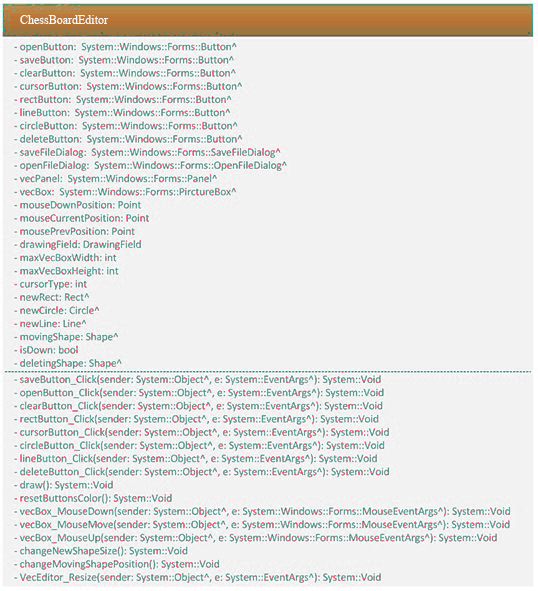


Рисунок 2 – Диаграмма класса ChessBoardEditor

Спецификация диаграммы

Программа состоит из 5 классов: наследника класса Form -ChessBoardEditor, Figure, Serializer, Deserializer.

Основной класс – ChessBoardEditor имеет свойства:  
CurrentFigure – представляет собой строку, хранящую имя конкретной фигуры; список фигур хранится в List<Figures> figures; список спрайтов фигур в списке List<PB> pictureBoxes; formatter типа XMLSerializer – применяется для сериализации текущей картинки.  
Методы (типа void): figureClick – вызывается при нажатии на фигуру; anyFieldClick – вызывается при нажатии на любое место доски; сохранитьToolStripMenuItem – отображается при раскрытии вкладки “Файл”, вызывает метод Сериализатора. открытьToolStripMenuItem – отображается при раскрытии вкладки “Файл”, вызывает метод Десериализатора. ОчиститьToolStripMenuItem, вызывает конструктор класса.

Класс Figure реализует фигуру доски. Описывает три свойства всех фигур типа строка: расположение - location; имя - name; цвет - color.

2 Описание программы

2.1 Общие сведения

Векторный графический редактор «ChessBoardEditor.exe». Для функционирования программы необходимо программное обеспечение   
.NET Framework версии 4.5 или выше. Программа написана на языке C++/CLI.

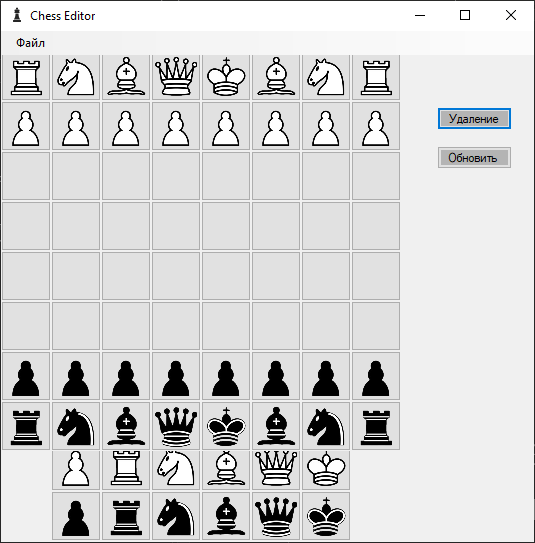


Рисунок 3 – Окно программы

2.2 Функциональное назначение

Программа предназначена для создания и (или) перемещения фигур на шахматной доске.

Доступные все шахматные фигуры.

2.3 Описание логической структуры

2.3.1 Общее описание

Отрисовка графического интерфейса и обработка пользовательского ввода осуществляется классом ChessBoardEditor.

Метод figureClick позволяет добавлять фигуры.

Все фигуры наследуются от класса Figure и реализуют его методы.

Класс Serializer позволяет сохранять изображение в файл с расширением «.xml».

Класс Deserializer позволяет загружать сохраненные в файл фигуры.

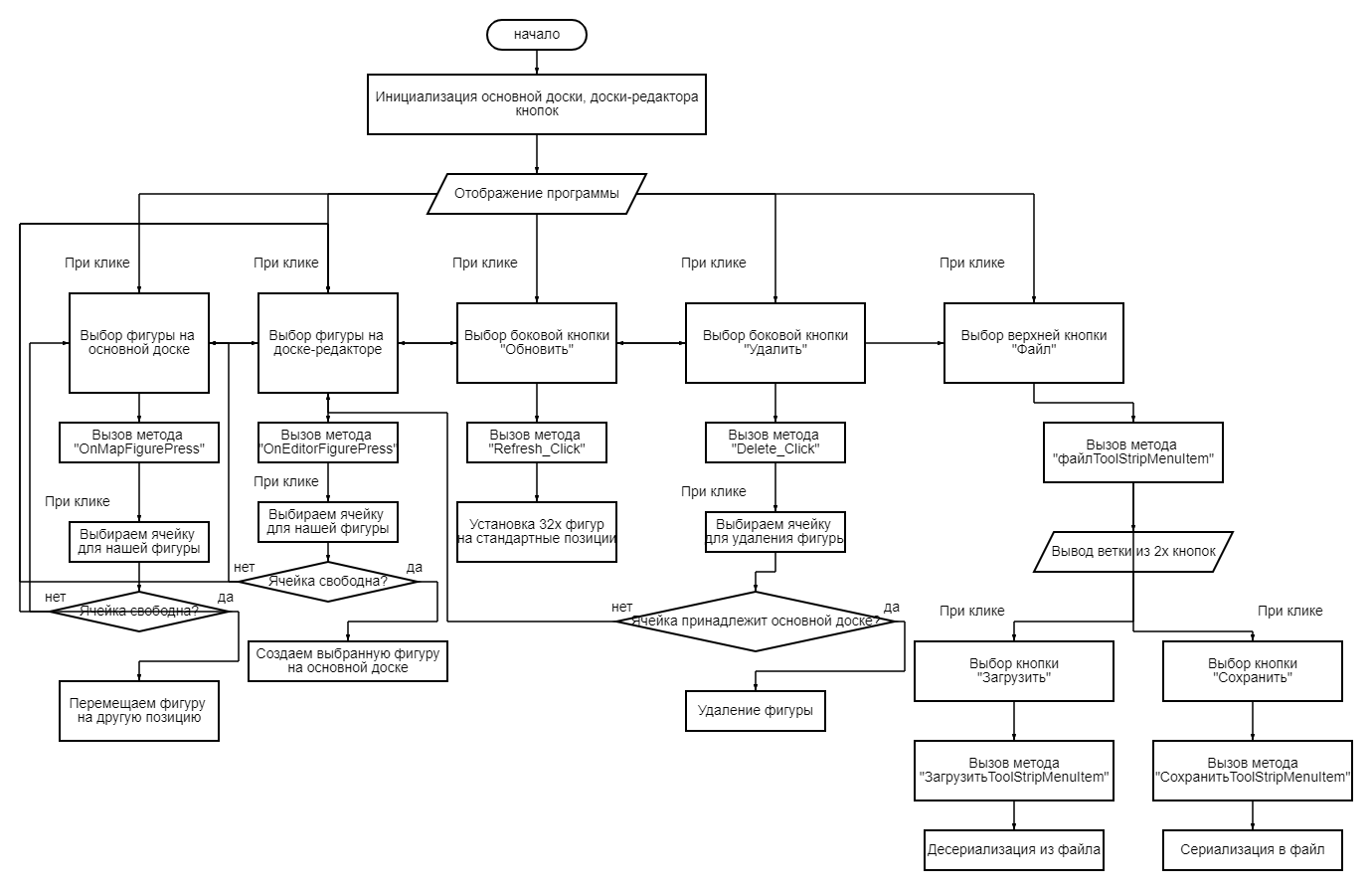
2.3.2 Алгоритм программы

Рисунок 4 - Блок-схема алгоритма программы

2.3.3 Открытие файла

При нажатии на кнопку «Открыть» вызывается окно выбора файла с помощью метода ShowDialog() элемента openFileDialog. При успешном выборе файла происходит считывание файла с помощью Xml\_Deserializer и добавление фигур из файла в экземпляр класса ChessBoardEditor с помощью экземпляра класса Deserializer.

2.3.4 Сохранение файла

При нажатии на кнопку «Сохранить» у пользователя запрашивается местоположение для сохранения файла с помощью метода ShowDialog() элемента saveFileDialog. При успешном выборе местоположения происходит запись в файл с помощью экземпляров классов XMl\_Serializer.

2.3.5 Добавление фигур

Для добавления фигур используются следующие обработчики событий: figureClick– нажатие ЛКМ в пределах области редактора и методы: draw() – вывод на шахматную доску добавленных фигур.

При срабатывании обработчика событий Refresh\_Click происходит обновление шахматной доски.

При срабатывании обработчика событий figureClick новый элемент добавляется в список фигур с помощью метода addShape() экземпляра класса DrawingField.

2.3.6 Перемещение фигур

Для перемещения фигур используются те же обработчики событий и методы, что и для добавления фигур.

2.3.7 Удаление фигур

Для удаления фигур используется обработчик событий Delete\_Click.

При срабатывании обработчика событий Delete\_Click полям BackgroundImage присваивается null.

2.3.8 Очистка области рисования

При нажатии на кнопку «Обновить» вызывается метод clearButton\_Click При срабатывании обработчика событий clearButton\_Click полям BackgroundImage присваивается null.

2.4 Используемые технические средства

Минимальные системные требования для работы программы:

1. Процессор, совместимый с ОС Windows Vista, 8, 8.1 или 10;
2. Не менее 12 МБ свободной оперативной памяти
3. Не менее 256 КБ свободной памяти на ЖД

2.5 Вызов и загрузка

Для вызова программы используется исполняемый файл ChessBoardEditor.exe. Его необходимо запустить с помощью файлового менеджера или командной строки. После запуска программа использует 7 МБ оперативной памяти. При добавлении фигур объем используемой оперативной памяти увеличивается вплоть до 11 МБ.

2.6 Входные данные

Первым видом входных данных является фигура, которую можно добавить, и ее позиция.

Второй вид входных данных – файл с расширением «.xml» предварительно созданный с помощью этой программы.

2.7 Выходные данные

Выходными данными является изображение в области рисования, которое можно сохранить в файл с расширением «.xml».

3 Описание применения

3.1 Назначение программы

Программа применяется для создания и перемещения фигур по шахматной доске. Доступны все виды шахматных фигур.

3.2 Условия применения

Для применения программы необходим персональный компьютер, удовлетворяющий минимальным системным требованиям:

1. ОС Windows 7 и выше;
2. Платформа Microsoft .NET Framework 4.5
3. Процессор, совместимый с ОС Windows 7, 8, 8.1 или 10;
4. Не менее 12 МБ свободной оперативной памяти
5. Не менее 256 КБ свободной памяти на жёстком диске
6. Мышь
7. Монитор

3.3 Описание задачи

Задача программы – создание и перемещение фигур по шахматной доске. Фигуры представлены в верхней и нижней частях программы. Для перемещения фигуры нажмите на нее, после чего нажмите ЛКМ на нужную ячейку доски и переместите ее. Для сохранения используется кнопка «Сохранить», для открытия существующего изображения – кнопка «Загрузить».

3.4 Входные и выходные данные

Входными данными может быть уже созданный с помощью данной программы файл с изображением, либо данные введенные с помощью мыши: координаты нажатия на область выбора фигур и шахматной доски.

Выходными данными является изображение на шахматной доске, которое можно сохранить в файл с расширением «.xml».

4 Руководство оператора

4.1 Сведения о форме представления программы

Программа записана на USB-накопитель с файловой системой «FAT32». Для чтения информации с носителя необходимо устройство, способное считывать информацию из USB-накопителя и поддерживающее работу с файловой системой «FAT32».

4.2 Назначение и условия применения программ

Программа предназначена для создания и перемещения фигур по шахматной доске, удаление добавленных фигур, очистка всей области и сохранение изображения.

Минимальные требования для применения программы:

1. ОС Windows Vista, 7, 8, или 10;
2. Платформа Microsoft .NET Framework версии 4.5 и выше
3. Процессор, совместимый с ОС Windows Vista, 7 или 10;
4. Не менее 12 МБ свободной оперативной памяти
5. Не менее 256 КБ свободной памяти на ЖД
6. Мышь
7. Монитор

4.3 Характеристика программы

Скорость работы программы на примере открытия изображения с разным количеством фигур:

1. Windows 10, процессор AMD Ryzen 4800H, встроенный компилятор среды разработки Microsoft Visual Studio 2019, платформа .NET Framework версии 4.5 размер входных данных: 50 фигур типа Rect; время с момента выбора файла до отображения фигур: 9 мс.
2. Windows 10, процессор AMD Ryzen 4800H, встроенный компилятор среды разработки Microsoft Visual Studio 2019, платформа .NET Framework версии 4.5, размер входных данных: 5000 фигур типа Rect; время с момента выбора файла до отображения фигур: 94 мс.

4.4 Обращение к программе

Программа вызывается, после её компилирования, через командную строку или файловый менеджер. Данные в программу вводятся пользователем при помощи мыши.

4.5 Входные и выходные данные

Входные данные – это координаты указателя в области шахматной доски, они принимаются в качестве аргумента соответствующих обработчиков событий, или файл с изображением.

Выходные данные – это изображение в области рисования, которое можно сохранить в файл с расширением «.xml».

4.6 Сообщения

1. При нажатии на кнопку «Сохранить» появляется окно с заголовком «Сохранить изображение». Необходимо выбрать местоположение для сохранения и имя файла. После чего нажать на кнопку «Сохранить».

2. Если пользователь введет имя файла, совпадающее с уже существующим файлом, появится диалоговое окно с сообщением « ”название файла” уже существует. Вы хотите заменить его?». Если совпадающее имя выбрано намеренно, нажмите на кнопку «Да», иначе нажмите на кнопку «Нет» и введите другое имя файла.

3. При нажатии на кнопку «Открыть» появляется окно с заголовком «Открыть изображение». Необходимо выбрать файл с изображением, затем нажать на кнопку «Открыть».

5 Описание контрольного примера

Запустим программу.

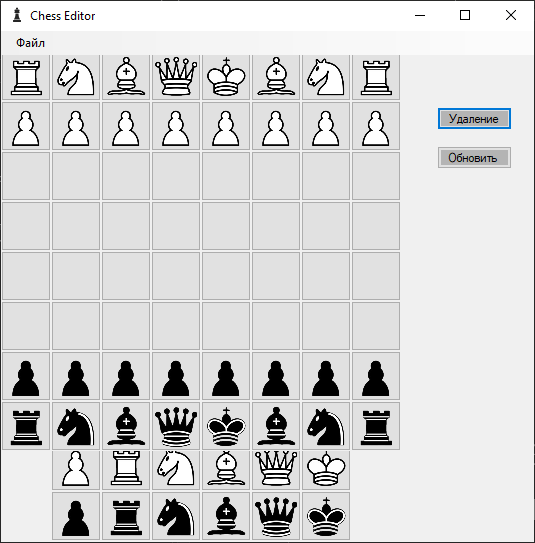


Рисунок 5 – Окно программы после запуска

Выберем тип фигуры «blackKnight», нажав на соответствующую кнопку, и добавим один экземпляр в область шахматной доски.

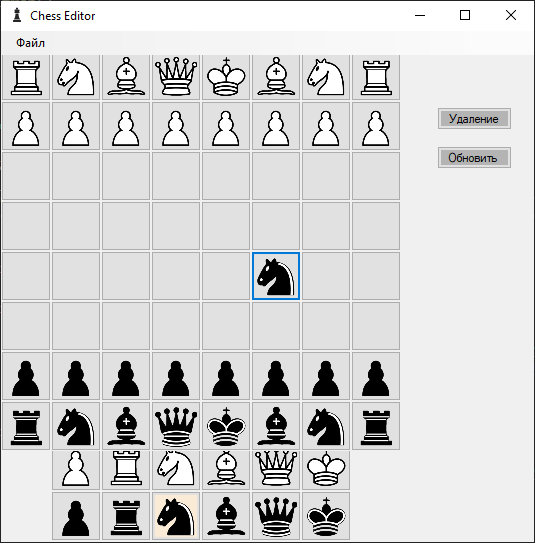


Рисунок 6 – Добавлена фигура типа «blackKnight»

Выберем тип фигуры «blackBishop», нажав на соответствующую кнопку, и добавим два экземпляра в область шахматной доски.

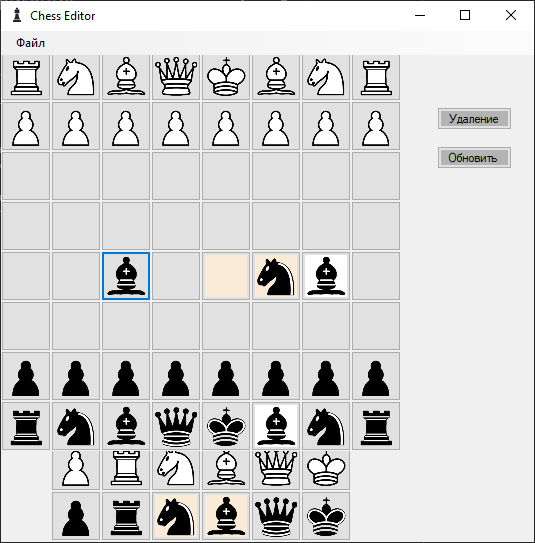


Рисунок 7 – Добавлены две фигуры типа «blackBishop»

Обновим шахматную доску, нажав на кнопку «Обновить»

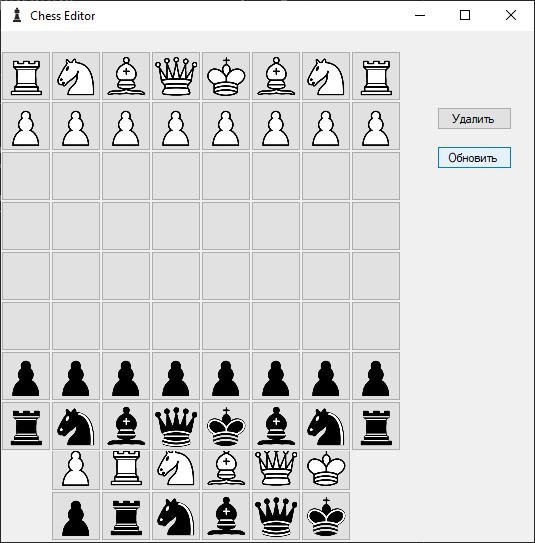


Рисунок 8 – Шахматная доска очищена

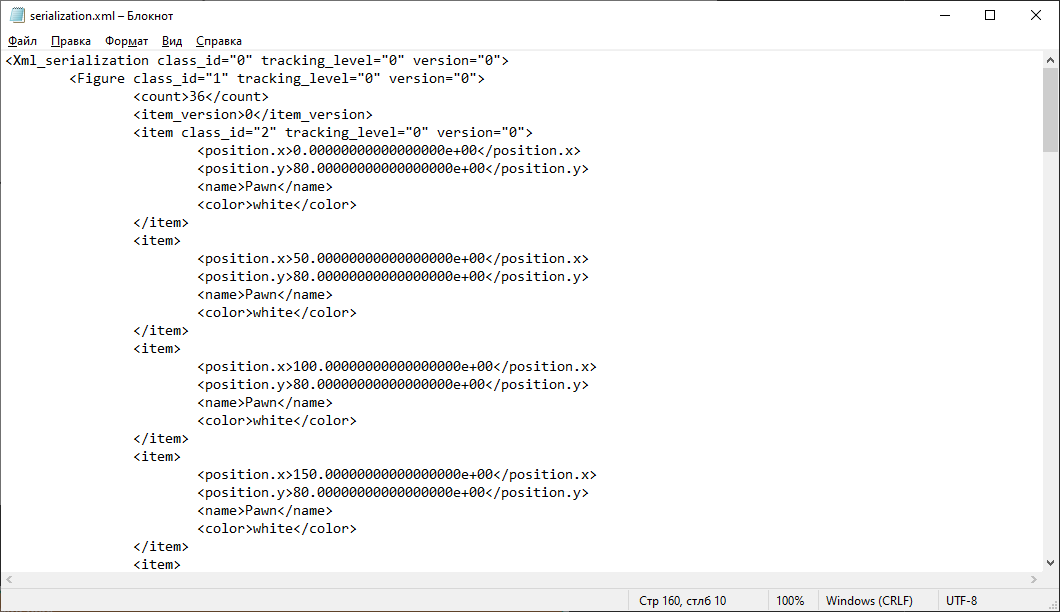


Рисунок 9 – Пример XML-файла

Заключение

Редактор «ChessBoardEditor.exe» предоставляет основные возможности для перемещения фигур по шахматной доске: добавление фигур всех видов, перемещение фигур, удаление фигур, сохранение изображение, открытие изображения.

Возможная область применения программы – создание картинок на тему шахматы.

8 Список источников

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2. ГОСТ 19.502 – 78. Единая система программной документации. Описание применения. Требования к содержанию и оформлению. – Москва: Изд-во Стандартинформ, 2010. – 2 с.
3. ГОСТ 19.402 – 78. Единая система программной документации. Описание программы. – Москва: Изд-во Стандартинформ, 2010. – 2 с.

Приложение A

(обязательное)

Содержание файла ChessBoardEditor.cpp:

#include "ChessBoardEditor.h"

#include <string>

#include <Windows.h>

using namespace System;

using namespace System::Collections::Generic;

using namespace System::Threading::Tasks;

using namespace System::Windows::Forms;

using namespace System::Linq;

[STAThread]

void main(array<String^>^ arg) {

Application::EnableVisualStyles();

Application::SetCompatibleTextRenderingDefault(false);

ChessGame::ChessBoardEditor form;

Application::Run(% form);

}

Содержание файла ChessBoardEditor.h:

#pragma once

#include <vector>

#include <string>

namespace ChessGame {

using namespace System;

using namespace std;

using namespace System::Collections::Generic;

using namespace System::ComponentModel;

using namespace System::Data;

using namespace System::Drawing;

using namespace System::IO;

using namespace System::Text;

using namespace System::Threading::Tasks;

using namespace System::Windows::Forms;

using namespace System::Xml::Serialization;

public ref class ChessBoardEditor : public System::Windows::Forms::Form

{

public: String^ nowFigure = "";

ChessBoardEditor(void)

{

InitializeComponent();

}

List<Figure^>^ figures = gcnew List<Figure^>();

public: System::Void figureClick(System::Object^ sender, System::EventArgs^ e)

{

nowFigure = ((Button^)sender)->Name;

((Button^)sender)->BackColor = System::Drawing::Color::Black;

}

public: System::Void anyField\_Click(System::Object^ sender, System::EventArgs^ e)

{

if (nowFigure->Length != 0)

{

auto pictureBox = (PictureBox^)sender;

if(nowFigure == L"whiteKing")

pictureBox->BackgroundImage = Image::FromFile( "C:\\Users\\USER\\source\\repos\\\ChessGame\\\ChessGame\\images\\whiteKing.png");

else if (nowFigure == L"blackKing")

pictureBox->BackgroundImage = Image::FromFile("C:\\Users\\USER\\source\\repos\\\ChessGame\\\ChessGame\\images\\blackKing.png");

else if (nowFigure == L"whiteQueen")

pictureBox->BackgroundImage = Image::FromFile("C:\\Users\\USER\\source\\repos\\\ChessGame\\\ChessGame\\images\\whiteQueen.png");

else if(nowFigure == L"blackQueen")

pictureBox->BackgroundImage = Image::FromFile("C:\\Users\\USER\\source\\repos\\\ChessGame\\\ChessGame\\images\\blackQueen.png");

else if(nowFigure == L"whiteRoof")

pictureBox->BackgroundImage = Image::FromFile("C:\\Users\\USER\\source\\repos\\\ChessGame\\\ChessGame\\images\\whiteRoof.png");

else if (nowFigure == L"blackRoof")

pictureBox->BackgroundImage = Image::FromFile("C:\\Users\\USER\\source\\repos\\\ChessGame\\\ChessGame\\images\\blackRoof.png");

else if (nowFigure == L"whiteBishop")

pictureBox->BackgroundImage = Image::FromFile("C:\\Users\\USER\\source\\repos\\\ChessGame\\\ChessGame\\images\\whiteBishop.png");

else if (nowFigure == L"blackBishop")

pictureBox->BackgroundImage = Image::FromFile("C:\\Users\\USER\\source\\repos\\\ChessGame\\\ChessGame\\images\\blackBishop.png");

else if (nowFigure == L"whiteKnight")

pictureBox->BackgroundImage = Image::FromFile("C:\\Users\\USER\\source\\repos\\\ChessGame\\\ChessGame\\images\\whiteKnight.png");

else if (nowFigure == L"blackKnight")

pictureBox->BackgroundImage = Image::FromFile("C:\\Users\\USER\\source\\repos\\\ChessGame\\\ChessGame\\images\\blackKnight.png");

else if (nowFigure == L"whitePawn")

pictureBox->BackgroundImage = Image::FromFile("C:\\Users\\USER\\source\\repos\\\ChessGame\\\ChessGame\\images\\whitePawn.png");

else if (nowFigure == L"blackPawn")

pictureBox->BackgroundImage = Image::FromFile("C:\\Users\\USER\\source\\repos\\\ChessGame\\\ChessGame\\images\\blackPawn.png");

Figure^ newFigure = gcnew Figure();

newFigure->color = nowFigure->Substring(0, 5);

newFigure->name = nowFigure->Substring(5, nowFigure->Length - 5);

newFigure->location = pictureBox->Name;

figures->Add(newFigure);

}

}

private: List<PictureBox^>^ pictureBoxes = gcnew List<PictureBox^>();

// XmlSerializer^ formatter = gcnew XmlSerializer(typeid(std::vector<Figure>), std::vector<std::type\_info> {typeid(Figure)});

private: System::Void clearButton\_Click(System::Object^ sender, System::EventArgs^ e)

{

for each(Control^ x in this->Controls)

{

if (dynamic\_cast<PictureBox^>(x) != nullptr)

{

(static\_cast<PictureBox^>(x))->BackgroundImage = nullptr;

}

}

}

private: System::Void открытьToolStripMenuItem\_Click(System::Object^ sender, System::EventArgs^ e)

{

if (openFileDialog1->ShowDialog() == System::Windows::Forms::DialogResult::Cancel)

return;

// получаем выбранный файл

String^ filename = openFileDialog1->FileName;

// читаем файл в строку

// сохранили в список

figures = (List<Figure^>)formatter::Deserialize(openFileDialog1->OpenFile());

for each (Control^ x in this->Controls)

{

if (dynamic\_cast<PictureBox^>(x) != nullptr)

{

(static\_cast<PictureBox^>(x))->BackgroundImage = nullptr;

}

}

for each(Figure^ figure in figures)

{

for each(Control^ x in Controls)

{

if (dynamic\_cast<PictureBox^>(x) != nullptr)

{

if (figure->location == x->Name)

{

auto filepath = L"C:\\Users\\USER\\source\\repos\\\ChessGame\\\ChessGame\\images\\" + figure->color + figure->name + L".png";

(static\_cast<PictureBox^>(x))->BackgroundImage = Image::FromFile(filepath);

}

}

}

}

}

private: System::Void сохранитьToolStripMenuItem\_Click(System::Object^ sender, System::EventArgs^ e)

{

Stream^ myStream;

SaveFileDialog^ saveFileDialog1 = gcnew SaveFileDialog();

saveFileDialog1->Filter = "xml files (\*.xml)|\*.xml|All files (\*.\*)|\*.\*";

saveFileDialog1->FilterIndex = 2;

saveFileDialog1->RestoreDirectory = false;

if (saveFileDialog1->ShowDialog() == System::Windows::Forms::DialogResult::OK)

{

if ((myStream = saveFileDialog1->OpenFile()) != nullptr)

{

//formatter->Serialize(myStream, figures);

myStream->Close();

}

}

}

protected:

~ChessBoardEditor()

{

if (components)

{

delete components;

}

}

private: System::Windows::Forms::Button^ clearButton;

protected:

private: System::Windows::Forms::Label^ label16;

private: System::Windows::Forms::Label^ label15;

private: System::Windows::Forms::Label^ label14;

private: System::Windows::Forms::Label^ label13;

private: System::Windows::Forms::Label^ label12;

private: System::Windows::Forms::Label^ label11;

private: System::Windows::Forms::Label^ label10;

private: System::Windows::Forms::Label^ label9;

private: System::Windows::Forms::Label^ label8;

private: System::Windows::Forms::Label^ label7;

private: System::Windows::Forms::Label^ label6;

private: System::Windows::Forms::Label^ label5;

private: System::Windows::Forms::Label^ label4;

private: System::Windows::Forms::Label^ label3;

private: System::Windows::Forms::Label^ label2;

private: System::Windows::Forms::Label^ label1;

private: System::Windows::Forms::PictureBox^ h1;

private: System::Windows::Forms::PictureBox^ g1;

private: System::Windows::Forms::PictureBox^ f1;

private: System::Windows::Forms::PictureBox^ e1;

private: System::Windows::Forms::OpenFileDialog^ openFileDialog1;

private: System::Windows::Forms::PictureBox^ d1;

private: System::Windows::Forms::PictureBox^ c1;

private: System::Windows::Forms::PictureBox^ b1;

private: System::Windows::Forms::PictureBox^ a1;

private: System::Windows::Forms::PictureBox^ h2;

private: System::Windows::Forms::PictureBox^ g2;

private: System::Windows::Forms::PictureBox^ f2;

private: System::Windows::Forms::PictureBox^ e2;

private: System::Windows::Forms::PictureBox^ d2;

private: System::Windows::Forms::PictureBox^ c2;

private: System::Windows::Forms::PictureBox^ b2;

private: System::Windows::Forms::PictureBox^ a2;

private: System::Windows::Forms::PictureBox^ h3;

private: System::Windows::Forms::ToolStripMenuItem^ файлToolStripMenuItem;

private: System::Windows::Forms::ToolStripMenuItem^ открытьToolStripMenuItem;

private: System::Windows::Forms::ToolStripMenuItem^ сохранитьToolStripMenuItem;

private: System::Windows::Forms::PictureBox^ g3;

private: System::Windows::Forms::PictureBox^ f3;

private: System::Windows::Forms::PictureBox^ e3;

private: System::Windows::Forms::PictureBox^ d3;

private: System::Windows::Forms::SaveFileDialog^ saveFileDialog1;

private: System::Windows::Forms::PictureBox^ c3;

private: System::Windows::Forms::PictureBox^ b3;

private: System::Windows::Forms::PictureBox^ a3;

private: System::Windows::Forms::PictureBox^ h4;

private: System::Windows::Forms::PictureBox^ g4;

private: System::Windows::Forms::PictureBox^ f4;

private: System::Windows::Forms::PictureBox^ e4;

private: System::Windows::Forms::PictureBox^ d4;

private: System::Windows::Forms::PictureBox^ c4;

private: System::Windows::Forms::PictureBox^ b4;

private: System::Windows::Forms::PictureBox^ a4;

private: System::Windows::Forms::PictureBox^ h5;

private: System::Windows::Forms::PictureBox^ g5;

private: System::Windows::Forms::PictureBox^ f5;

private: System::Windows::Forms::PictureBox^ e5;

private: System::Windows::Forms::PictureBox^ d5;

private: System::Windows::Forms::PictureBox^ c5;

private: System::Windows::Forms::PictureBox^ b5;

private: System::Windows::Forms::PictureBox^ a5;

private: System::Windows::Forms::PictureBox^ h6;

private: System::Windows::Forms::PictureBox^ g6;

private: System::Windows::Forms::PictureBox^ f6;

private: System::Windows::Forms::PictureBox^ e6;

private: System::Windows::Forms::PictureBox^ d6;

private: System::Windows::Forms::PictureBox^ c6;

private: System::Windows::Forms::PictureBox^ b6;

private: System::Windows::Forms::PictureBox^ a6;

private: System::Windows::Forms::PictureBox^ h7;

private: System::Windows::Forms::PictureBox^ g7;

private: System::Windows::Forms::PictureBox^ f7;

private: System::Windows::Forms::PictureBox^ e7;

private: System::Windows::Forms::PictureBox^ d7;

private: System::Windows::Forms::PictureBox^ c7;

private: System::Windows::Forms::PictureBox^ b7;

private: System::Windows::Forms::PictureBox^ a7;

private: System::Windows::Forms::PictureBox^ h8;

private: System::Windows::Forms::PictureBox^ g8;

private: System::Windows::Forms::PictureBox^ f8;

private: System::Windows::Forms::PictureBox^ e8;

private: System::Windows::Forms::PictureBox^ d8;

private: System::Windows::Forms::PictureBox^ c8;

private: System::Windows::Forms::PictureBox^ b8;

private: System::Windows::Forms::PictureBox^ a8;

private: System::Windows::Forms::Button^ blackPawn;

private: System::Windows::Forms::Button^ blackKnight;

private: System::Windows::Forms::Button^ blackBishop;

private: System::Windows::Forms::Button^ blackRoof;

private: System::Windows::Forms::Button^ blackQueen;

private: System::Windows::Forms::Button^ blackKing;

private: System::Windows::Forms::Button^ whitePawn;

private: System::Windows::Forms::Button^ whiteKnight;

private: System::Windows::Forms::Button^ whiteBishop;

private: System::Windows::Forms::Button^ whiteRoof;

private: System::Windows::Forms::Button^ whiteQueen;

private: System::Windows::Forms::Button^ whiteKing;

private: System::Windows::Forms::MenuStrip^ menuStrip1;

private:

/// <summary>

/// Обязательная переменная конструктора.

/// </summary>

System::ComponentModel::Container ^components;

#pragma region Windows Form Designer generated code

/// <summary>

/// Требуемый метод для поддержки конструктора — не изменяйте

/// содержимое этого метода с помощью редактора кода.

/// </summary>

void InitializeComponent(void)

{

System::ComponentModel::ComponentResourceManager^ resources = (gcnew System::ComponentModel::ComponentResourceManager(ChessBoardEditor::typeid));

this->clearButton = (gcnew System::Windows::Forms::Button());

this->label16 = (gcnew System::Windows::Forms::Label());

this->label15 = (gcnew System::Windows::Forms::Label());

this->label14 = (gcnew System::Windows::Forms::Label());

this->label13 = (gcnew System::Windows::Forms::Label());

this->label12 = (gcnew System::Windows::Forms::Label());

this->label11 = (gcnew System::Windows::Forms::Label());

this->label10 = (gcnew System::Windows::Forms::Label());

this->label9 = (gcnew System::Windows::Forms::Label());

this->label8 = (gcnew System::Windows::Forms::Label());

this->label7 = (gcnew System::Windows::Forms::Label());

this->label6 = (gcnew System::Windows::Forms::Label());

this->label5 = (gcnew System::Windows::Forms::Label());

this->label4 = (gcnew System::Windows::Forms::Label());

this->label3 = (gcnew System::Windows::Forms::Label());

this->label2 = (gcnew System::Windows::Forms::Label());

this->label1 = (gcnew System::Windows::Forms::Label());

this->h1 = (gcnew System::Windows::Forms::PictureBox());

this->g1 = (gcnew System::Windows::Forms::PictureBox());

this->f1 = (gcnew System::Windows::Forms::PictureBox());

this->e1 = (gcnew System::Windows::Forms::PictureBox());

this->openFileDialog1 = (gcnew System::Windows::Forms::OpenFileDialog());

this->d1 = (gcnew System::Windows::Forms::PictureBox());

this->c1 = (gcnew System::Windows::Forms::PictureBox());

this->b1 = (gcnew System::Windows::Forms::PictureBox());

this->a1 = (gcnew System::Windows::Forms::PictureBox());

this->h2 = (gcnew System::Windows::Forms::PictureBox());

this->g2 = (gcnew System::Windows::Forms::PictureBox());

this->f2 = (gcnew System::Windows::Forms::PictureBox());

this->e2 = (gcnew System::Windows::Forms::PictureBox());

this->d2 = (gcnew System::Windows::Forms::PictureBox());

this->c2 = (gcnew System::Windows::Forms::PictureBox());

this->b2 = (gcnew System::Windows::Forms::PictureBox());

this->a2 = (gcnew System::Windows::Forms::PictureBox());

this->h3 = (gcnew System::Windows::Forms::PictureBox());

this->файлToolStripMenuItem = (gcnew System::Windows::Forms::ToolStripMenuItem());

this->открытьToolStripMenuItem = (gcnew System::Windows::Forms::ToolStripMenuItem());

this->сохранитьToolStripMenuItem = (gcnew System::Windows::Forms::ToolStripMenuItem());

this->g3 = (gcnew System::Windows::Forms::PictureBox());

this->f3 = (gcnew System::Windows::Forms::PictureBox());

this->e3 = (gcnew System::Windows::Forms::PictureBox());

this->d3 = (gcnew System::Windows::Forms::PictureBox());

this->saveFileDialog1 = (gcnew System::Windows::Forms::SaveFileDialog());

this->c3 = (gcnew System::Windows::Forms::PictureBox());

this->b3 = (gcnew System::Windows::Forms::PictureBox());

this->a3 = (gcnew System::Windows::Forms::PictureBox());

this->h4 = (gcnew System::Windows::Forms::PictureBox());

this->g4 = (gcnew System::Windows::Forms::PictureBox());

this->f4 = (gcnew System::Windows::Forms::PictureBox());

this->e4 = (gcnew System::Windows::Forms::PictureBox());

this->d4 = (gcnew System::Windows::Forms::PictureBox());

this->c4 = (gcnew System::Windows::Forms::PictureBox());

this->b4 = (gcnew System::Windows::Forms::PictureBox());

this->a4 = (gcnew System::Windows::Forms::PictureBox());

this->h5 = (gcnew System::Windows::Forms::PictureBox());

this->g5 = (gcnew System::Windows::Forms::PictureBox());

this->f5 = (gcnew System::Windows::Forms::PictureBox());

this->e5 = (gcnew System::Windows::Forms::PictureBox());

this->d5 = (gcnew System::Windows::Forms::PictureBox());

this->c5 = (gcnew System::Windows::Forms::PictureBox());

this->b5 = (gcnew System::Windows::Forms::PictureBox());

this->a5 = (gcnew System::Windows::Forms::PictureBox());

this->h6 = (gcnew System::Windows::Forms::PictureBox());

this->g6 = (gcnew System::Windows::Forms::PictureBox());

this->f6 = (gcnew System::Windows::Forms::PictureBox());

this->e6 = (gcnew System::Windows::Forms::PictureBox());

this->d6 = (gcnew System::Windows::Forms::PictureBox());

this->c6 = (gcnew System::Windows::Forms::PictureBox());

this->b6 = (gcnew System::Windows::Forms::PictureBox());

this->a6 = (gcnew System::Windows::Forms::PictureBox());

this->h7 = (gcnew System::Windows::Forms::PictureBox());

this->g7 = (gcnew System::Windows::Forms::PictureBox());

this->f7 = (gcnew System::Windows::Forms::PictureBox());

this->e7 = (gcnew System::Windows::Forms::PictureBox());

this->d7 = (gcnew System::Windows::Forms::PictureBox());

this->c7 = (gcnew System::Windows::Forms::PictureBox());

this->b7 = (gcnew System::Windows::Forms::PictureBox());

this->a7 = (gcnew System::Windows::Forms::PictureBox());

this->h8 = (gcnew System::Windows::Forms::PictureBox());

this->g8 = (gcnew System::Windows::Forms::PictureBox());

this->f8 = (gcnew System::Windows::Forms::PictureBox());

this->e8 = (gcnew System::Windows::Forms::PictureBox());

this->d8 = (gcnew System::Windows::Forms::PictureBox());

this->c8 = (gcnew System::Windows::Forms::PictureBox());

this->b8 = (gcnew System::Windows::Forms::PictureBox());

this->a8 = (gcnew System::Windows::Forms::PictureBox());

this->blackPawn = (gcnew System::Windows::Forms::Button());

this->blackKnight = (gcnew System::Windows::Forms::Button());

this->blackBishop = (gcnew System::Windows::Forms::Button());

this->blackRoof = (gcnew System::Windows::Forms::Button());

this->blackQueen = (gcnew System::Windows::Forms::Button());

this->blackKing = (gcnew System::Windows::Forms::Button());

this->whitePawn = (gcnew System::Windows::Forms::Button());

this->whiteKnight = (gcnew System::Windows::Forms::Button());

this->whiteBishop = (gcnew System::Windows::Forms::Button());

this->whiteRoof = (gcnew System::Windows::Forms::Button());

this->whiteQueen = (gcnew System::Windows::Forms::Button());

this->whiteKing = (gcnew System::Windows::Forms::Button());

this->menuStrip1 = (gcnew System::Windows::Forms::MenuStrip());

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h1))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g1))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f1))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e1))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d1))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c1))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b1))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a1))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h2))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g2))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f2))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e2))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d2))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c2))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b2))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a2))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h3))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g3))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f3))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e3))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d3))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c3))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b3))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a3))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h4))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g4))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f4))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e4))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d4))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c4))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b4))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a4))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h5))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g5))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f5))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e5))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d5))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c5))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b5))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a5))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h6))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g6))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f6))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e6))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d6))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c6))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b6))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a6))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h7))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g7))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f7))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e7))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d7))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c7))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b7))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a7))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h8))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g8))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f8))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e8))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d8))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c8))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b8))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a8))->BeginInit();

this->menuStrip1->SuspendLayout();

this->SuspendLayout();

//

// clearButton

//

this->clearButton->FlatAppearance->BorderColor = System::Drawing::Color::WhiteSmoke;

this->clearButton->FlatAppearance->MouseDownBackColor = System::Drawing::Color::FromArgb(static\_cast<System::Int32>(static\_cast<System::Byte>(192)),

static\_cast<System::Int32>(static\_cast<System::Byte>(255)), static\_cast<System::Int32>(static\_cast<System::Byte>(255)));

this->clearButton->ForeColor = System::Drawing::SystemColors::ActiveCaptionText;

this->clearButton->Location = System::Drawing::Point(12, 70);

this->clearButton->Name = L"clearButton";

this->clearButton->Size = System::Drawing::Size(133, 64);

this->clearButton->TabIndex = 201;

this->clearButton->Text = L"Очистить доску";

this->clearButton->UseVisualStyleBackColor = true;

//

// label16

//

this->label16->AutoSize = true;

this->label16->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label16->Location = System::Drawing::Point(189, 118);

this->label16->Name = L"label16";

this->label16->Size = System::Drawing::Size(16, 16);

this->label16->TabIndex = 200;

this->label16->Text = L"8";

//

// label15

//

this->label15->AutoSize = true;

this->label15->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label15->Location = System::Drawing::Point(189, 183);

this->label15->Name = L"label15";

this->label15->Size = System::Drawing::Size(16, 16);

this->label15->TabIndex = 199;

this->label15->Text = L"7";

//

// label14

//

this->label14->AutoSize = true;

this->label14->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label14->Location = System::Drawing::Point(189, 246);

this->label14->Name = L"label14";

this->label14->Size = System::Drawing::Size(16, 16);

this->label14->TabIndex = 198;

this->label14->Text = L"6";

//

// label13

//

this->label13->AutoSize = true;

this->label13->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label13->Location = System::Drawing::Point(189, 309);

this->label13->Name = L"label13";

this->label13->Size = System::Drawing::Size(16, 16);

this->label13->TabIndex = 197;

this->label13->Text = L"5";

//

// label12

//

this->label12->AutoSize = true;

this->label12->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label12->Location = System::Drawing::Point(189, 373);

this->label12->Name = L"label12";

this->label12->Size = System::Drawing::Size(16, 16);

this->label12->TabIndex = 196;

this->label12->Text = L"4";

//

// label11

//

this->label11->AutoSize = true;

this->label11->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label11->Location = System::Drawing::Point(189, 435);

this->label11->Name = L"label11";

this->label11->Size = System::Drawing::Size(16, 16);

this->label11->TabIndex = 195;

this->label11->Text = L"3";

//

// label10

//

this->label10->AutoSize = true;

this->label10->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label10->Location = System::Drawing::Point(189, 502);

this->label10->Name = L"label10";

this->label10->Size = System::Drawing::Size(16, 16);

this->label10->TabIndex = 194;

this->label10->Text = L"2";

//

// label9

//

this->label9->AutoSize = true;

this->label9->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label9->Location = System::Drawing::Point(189, 561);

this->label9->Name = L"label9";

this->label9->Size = System::Drawing::Size(16, 16);

this->label9->TabIndex = 193;

this->label9->Text = L"1";

//

// label8

//

this->label8->AutoSize = true;

this->label8->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label8->Location = System::Drawing::Point(682, 605);

this->label8->Name = L"label8";

this->label8->Size = System::Drawing::Size(19, 16);

this->label8->TabIndex = 192;

this->label8->Text = L"H";

//

// label7

//

this->label7->AutoSize = true;

this->label7->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label7->Location = System::Drawing::Point(617, 605);

this->label7->Name = L"label7";

this->label7->Size = System::Drawing::Size(19, 16);

this->label7->TabIndex = 191;

this->label7->Text = L"G";

//

// label6

//

this->label6->AutoSize = true;

this->label6->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label6->Location = System::Drawing::Point(554, 605);

this->label6->Name = L"label6";

this->label6->Size = System::Drawing::Size(17, 16);

this->label6->TabIndex = 190;

this->label6->Text = L"F";

//

// label5

//

this->label5->AutoSize = true;

this->label5->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label5->Location = System::Drawing::Point(489, 606);

this->label5->Name = L"label5";

this->label5->Size = System::Drawing::Size(18, 16);

this->label5->TabIndex = 189;

this->label5->Text = L"E";

//

// label4

//

this->label4->AutoSize = true;

this->label4->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label4->Location = System::Drawing::Point(426, 606);

this->label4->Name = L"label4";

this->label4->Size = System::Drawing::Size(19, 16);

this->label4->TabIndex = 188;

this->label4->Text = L"D";

//

// label3

//

this->label3->AutoSize = true;

this->label3->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label3->Location = System::Drawing::Point(362, 606);

this->label3->Name = L"label3";

this->label3->Size = System::Drawing::Size(18, 16);

this->label3->TabIndex = 187;

this->label3->Text = L"C";

//

// label2

//

this->label2->AutoSize = true;

this->label2->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label2->Location = System::Drawing::Point(297, 606);

this->label2->Name = L"label2";

this->label2->Size = System::Drawing::Size(18, 16);

this->label2->TabIndex = 186;

this->label2->Text = L"B";

//

// label1

//

this->label1->AutoSize = true;

this->label1->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(204)));

this->label1->Location = System::Drawing::Point(235, 606);

this->label1->Name = L"label1";

this->label1->Size = System::Drawing::Size(18, 16);

this->label1->TabIndex = 185;

this->label1->Text = L"A";

//

// h1

//

this->h1->BackColor = System::Drawing::Color::White;

this->h1->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->h1->Location = System::Drawing::Point(657, 539);

this->h1->Name = L"h1";

this->h1->Size = System::Drawing::Size(64, 64);

this->h1->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->h1->TabIndex = 184;

this->h1->TabStop = false;

//

// g1

//

this->g1->BackColor = System::Drawing::Color::Black;

this->g1->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->g1->Location = System::Drawing::Point(593, 539);

this->g1->Name = L"g1";

this->g1->Size = System::Drawing::Size(64, 64);

this->g1->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->g1->TabIndex = 183;

this->g1->TabStop = false;

//

// f1

//

this->f1->BackColor = System::Drawing::Color::White;

this->f1->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->f1->Location = System::Drawing::Point(529, 539);

this->f1->Name = L"f1";

this->f1->Size = System::Drawing::Size(64, 64);

this->f1->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->f1->TabIndex = 182;

this->f1->TabStop = false;

//

// e1

//

this->e1->BackColor = System::Drawing::Color::Black;

this->e1->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->e1->Location = System::Drawing::Point(465, 539);

this->e1->Name = L"e1";

this->e1->Size = System::Drawing::Size(64, 64);

this->e1->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->e1->TabIndex = 181;

this->e1->TabStop = false;

//

// openFileDialog1

//

this->openFileDialog1->FileName = L"openFileDialog1";

//

// d1

//

this->d1->BackColor = System::Drawing::Color::White;

this->d1->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->d1->Location = System::Drawing::Point(401, 539);

this->d1->Name = L"d1";

this->d1->Size = System::Drawing::Size(64, 64);

this->d1->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->d1->TabIndex = 180;

this->d1->TabStop = false;

//

// c1

//

this->c1->BackColor = System::Drawing::Color::Black;

this->c1->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->c1->Location = System::Drawing::Point(337, 539);

this->c1->Name = L"c1";

this->c1->Size = System::Drawing::Size(64, 64);

this->c1->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->c1->TabIndex = 179;

this->c1->TabStop = false;

//

// b1

//

this->b1->BackColor = System::Drawing::Color::White;

this->b1->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->b1->Location = System::Drawing::Point(273, 539);

this->b1->Name = L"b1";

this->b1->Size = System::Drawing::Size(64, 64);

this->b1->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->b1->TabIndex = 178;

this->b1->TabStop = false;

//

// a1

//

this->a1->BackColor = System::Drawing::Color::Black;

this->a1->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->a1->Location = System::Drawing::Point(209, 539);

this->a1->Name = L"a1";

this->a1->Size = System::Drawing::Size(64, 64);

this->a1->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->a1->TabIndex = 177;

this->a1->TabStop = false;

//

// h2

//

this->h2->BackColor = System::Drawing::Color::Black;

this->h2->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->h2->Location = System::Drawing::Point(657, 475);

this->h2->Name = L"h2";

this->h2->Size = System::Drawing::Size(64, 64);

this->h2->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->h2->TabIndex = 176;

this->h2->TabStop = false;

//

// g2

//

this->g2->BackColor = System::Drawing::Color::White;

this->g2->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->g2->Location = System::Drawing::Point(593, 475);

this->g2->Name = L"g2";

this->g2->Size = System::Drawing::Size(64, 64);

this->g2->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->g2->TabIndex = 175;

this->g2->TabStop = false;

//

// f2

//

this->f2->BackColor = System::Drawing::Color::Black;

this->f2->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->f2->Location = System::Drawing::Point(529, 475);

this->f2->Name = L"f2";

this->f2->Size = System::Drawing::Size(64, 64);

this->f2->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->f2->TabIndex = 174;

this->f2->TabStop = false;

//

// e2

//

this->e2->BackColor = System::Drawing::Color::White;

this->e2->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->e2->Location = System::Drawing::Point(465, 475);

this->e2->Name = L"e2";

this->e2->Size = System::Drawing::Size(64, 64);

this->e2->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->e2->TabIndex = 173;

this->e2->TabStop = false;

//

// d2

//

this->d2->BackColor = System::Drawing::Color::Black;

this->d2->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->d2->Location = System::Drawing::Point(401, 475);

this->d2->Name = L"d2";

this->d2->Size = System::Drawing::Size(64, 64);

this->d2->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->d2->TabIndex = 172;

this->d2->TabStop = false;

//

// c2

//

this->c2->BackColor = System::Drawing::Color::White;

this->c2->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->c2->Location = System::Drawing::Point(337, 475);

this->c2->Name = L"c2";

this->c2->Size = System::Drawing::Size(64, 64);

this->c2->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->c2->TabIndex = 171;

this->c2->TabStop = false;

//

// b2

//

this->b2->BackColor = System::Drawing::Color::Black;

this->b2->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->b2->Location = System::Drawing::Point(273, 475);

this->b2->Name = L"b2";

this->b2->Size = System::Drawing::Size(64, 64);

this->b2->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->b2->TabIndex = 170;

this->b2->TabStop = false;

//

// a2

//

this->a2->BackColor = System::Drawing::Color::White;

this->a2->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->a2->Location = System::Drawing::Point(209, 475);

this->a2->Name = L"a2";

this->a2->Size = System::Drawing::Size(64, 64);

this->a2->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->a2->TabIndex = 169;

this->a2->TabStop = false;

//

// h3

//

this->h3->BackColor = System::Drawing::Color::White;

this->h3->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->h3->Location = System::Drawing::Point(657, 411);

this->h3->Name = L"h3";

this->h3->Size = System::Drawing::Size(64, 64);

this->h3->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->h3->TabIndex = 168;

this->h3->TabStop = false;

//

// файлToolStripMenuItem

//

this->файлToolStripMenuItem->DropDownItems->AddRange(gcnew cli::array< System::Windows::Forms::ToolStripItem^ >(2) {

this->открытьToolStripMenuItem,

this->сохранитьToolStripMenuItem

});

this->файлToolStripMenuItem->Name = L"файлToolStripMenuItem";

this->файлToolStripMenuItem->Size = System::Drawing::Size(48, 20);

this->файлToolStripMenuItem->Text = L"Файл";

//

// открытьToolStripMenuItem

//

this->открытьToolStripMenuItem->Name = L"открытьToolStripMenuItem";

this->открытьToolStripMenuItem->Size = System::Drawing::Size(180, 22);

this->открытьToolStripMenuItem->Text = L"Открыть";

//

// сохранитьToolStripMenuItem

//

this->сохранитьToolStripMenuItem->Name = L"сохранитьToolStripMenuItem";

this->сохранитьToolStripMenuItem->Size = System::Drawing::Size(180, 22);

this->сохранитьToolStripMenuItem->Text = L"Сохранить";

//

// g3

//

this->g3->BackColor = System::Drawing::Color::Black;

this->g3->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->g3->Location = System::Drawing::Point(593, 411);

this->g3->Name = L"g3";

this->g3->Size = System::Drawing::Size(64, 64);

this->g3->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->g3->TabIndex = 167;

this->g3->TabStop = false;

//

// f3

//

this->f3->BackColor = System::Drawing::Color::White;

this->f3->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->f3->Location = System::Drawing::Point(529, 411);

this->f3->Name = L"f3";

this->f3->Size = System::Drawing::Size(64, 64);

this->f3->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->f3->TabIndex = 166;

this->f3->TabStop = false;

//

// e3

//

this->e3->BackColor = System::Drawing::Color::Black;

this->e3->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->e3->Location = System::Drawing::Point(465, 411);

this->e3->Name = L"e3";

this->e3->Size = System::Drawing::Size(64, 64);

this->e3->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->e3->TabIndex = 165;

this->e3->TabStop = false;

//

// d3

//

this->d3->BackColor = System::Drawing::Color::White;

this->d3->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->d3->Location = System::Drawing::Point(401, 411);

this->d3->Name = L"d3";

this->d3->Size = System::Drawing::Size(64, 64);

this->d3->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->d3->TabIndex = 164;

this->d3->TabStop = false;

//

// c3

//

this->c3->BackColor = System::Drawing::Color::Black;

this->c3->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->c3->Location = System::Drawing::Point(337, 411);

this->c3->Name = L"c3";

this->c3->Size = System::Drawing::Size(64, 64);

this->c3->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->c3->TabIndex = 163;

this->c3->TabStop = false;

//

// b3

//

this->b3->BackColor = System::Drawing::Color::White;

this->b3->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->b3->Location = System::Drawing::Point(273, 411);

this->b3->Name = L"b3";

this->b3->Size = System::Drawing::Size(64, 64);

this->b3->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->b3->TabIndex = 162;

this->b3->TabStop = false;

//

// a3

//

this->a3->BackColor = System::Drawing::Color::Black;

this->a3->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->a3->Location = System::Drawing::Point(209, 411);

this->a3->Name = L"a3";

this->a3->Size = System::Drawing::Size(64, 64);

this->a3->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->a3->TabIndex = 161;

this->a3->TabStop = false;

//

// h4

//

this->h4->BackColor = System::Drawing::Color::Black;

this->h4->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->h4->Location = System::Drawing::Point(657, 347);

this->h4->Name = L"h4";

this->h4->Size = System::Drawing::Size(64, 64);

this->h4->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->h4->TabIndex = 160;

this->h4->TabStop = false;

//

// g4

//

this->g4->BackColor = System::Drawing::Color::White;

this->g4->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->g4->Location = System::Drawing::Point(593, 347);

this->g4->Name = L"g4";

this->g4->Size = System::Drawing::Size(64, 64);

this->g4->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->g4->TabIndex = 159;

this->g4->TabStop = false;

//

// f4

//

this->f4->BackColor = System::Drawing::Color::Black;

this->f4->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->f4->Location = System::Drawing::Point(529, 347);

this->f4->Name = L"f4";

this->f4->Size = System::Drawing::Size(64, 64);

this->f4->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->f4->TabIndex = 158;

this->f4->TabStop = false;

//

// e4

//

this->e4->BackColor = System::Drawing::Color::White;

this->e4->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->e4->Location = System::Drawing::Point(465, 347);

this->e4->Name = L"e4";

this->e4->Size = System::Drawing::Size(64, 64);

this->e4->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->e4->TabIndex = 157;

this->e4->TabStop = false;

//

// d4

//

this->d4->BackColor = System::Drawing::Color::Black;

this->d4->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->d4->Location = System::Drawing::Point(401, 347);

this->d4->Name = L"d4";

this->d4->Size = System::Drawing::Size(64, 64);

this->d4->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->d4->TabIndex = 156;

this->d4->TabStop = false;

//

// c4

//

this->c4->BackColor = System::Drawing::Color::White;

this->c4->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->c4->Location = System::Drawing::Point(337, 347);

this->c4->Name = L"c4";

this->c4->Size = System::Drawing::Size(64, 64);

this->c4->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->c4->TabIndex = 155;

this->c4->TabStop = false;

//

// b4

//

this->b4->BackColor = System::Drawing::Color::Black;

this->b4->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->b4->Location = System::Drawing::Point(273, 347);

this->b4->Name = L"b4";

this->b4->Size = System::Drawing::Size(64, 64);

this->b4->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->b4->TabIndex = 154;

this->b4->TabStop = false;

//

// a4

//

this->a4->BackColor = System::Drawing::Color::White;

this->a4->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->a4->Location = System::Drawing::Point(209, 347);

this->a4->Name = L"a4";

this->a4->Size = System::Drawing::Size(64, 64);

this->a4->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->a4->TabIndex = 153;

this->a4->TabStop = false;

//

// h5

//

this->h5->BackColor = System::Drawing::Color::White;

this->h5->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->h5->Location = System::Drawing::Point(657, 283);

this->h5->Name = L"h5";

this->h5->Size = System::Drawing::Size(64, 64);

this->h5->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->h5->TabIndex = 152;

this->h5->TabStop = false;

//

// g5

//

this->g5->BackColor = System::Drawing::Color::Black;

this->g5->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->g5->Location = System::Drawing::Point(593, 283);

this->g5->Name = L"g5";

this->g5->Size = System::Drawing::Size(64, 64);

this->g5->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->g5->TabIndex = 151;

this->g5->TabStop = false;

//

// f5

//

this->f5->BackColor = System::Drawing::Color::White;

this->f5->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->f5->Location = System::Drawing::Point(529, 283);

this->f5->Name = L"f5";

this->f5->Size = System::Drawing::Size(64, 64);

this->f5->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->f5->TabIndex = 150;

this->f5->TabStop = false;

//

// e5

//

this->e5->BackColor = System::Drawing::Color::Black;

this->e5->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->e5->Location = System::Drawing::Point(465, 283);

this->e5->Name = L"e5";

this->e5->Size = System::Drawing::Size(64, 64);

this->e5->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->e5->TabIndex = 149;

this->e5->TabStop = false;

//

// d5

//

this->d5->BackColor = System::Drawing::Color::White;

this->d5->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->d5->Location = System::Drawing::Point(401, 283);

this->d5->Name = L"d5";

this->d5->Size = System::Drawing::Size(64, 64);

this->d5->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->d5->TabIndex = 148;

this->d5->TabStop = false;

//

// c5

//

this->c5->BackColor = System::Drawing::Color::Black;

this->c5->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->c5->Location = System::Drawing::Point(337, 283);

this->c5->Name = L"c5";

this->c5->Size = System::Drawing::Size(64, 64);

this->c5->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->c5->TabIndex = 147;

this->c5->TabStop = false;

//

// b5

//

this->b5->BackColor = System::Drawing::Color::White;

this->b5->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->b5->Location = System::Drawing::Point(273, 283);

this->b5->Name = L"b5";

this->b5->Size = System::Drawing::Size(64, 64);

this->b5->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->b5->TabIndex = 146;

this->b5->TabStop = false;

//

// a5

//

this->a5->BackColor = System::Drawing::Color::Black;

this->a5->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->a5->Location = System::Drawing::Point(209, 283);

this->a5->Name = L"a5";

this->a5->Size = System::Drawing::Size(64, 64);

this->a5->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->a5->TabIndex = 145;

this->a5->TabStop = false;

//

// h6

//

this->h6->BackColor = System::Drawing::Color::Black;

this->h6->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->h6->Location = System::Drawing::Point(657, 219);

this->h6->Name = L"h6";

this->h6->Size = System::Drawing::Size(64, 64);

this->h6->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->h6->TabIndex = 144;

this->h6->TabStop = false;

//

// g6

//

this->g6->BackColor = System::Drawing::Color::White;

this->g6->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->g6->Location = System::Drawing::Point(593, 219);

this->g6->Name = L"g6";

this->g6->Size = System::Drawing::Size(64, 64);

this->g6->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->g6->TabIndex = 143;

this->g6->TabStop = false;

//

// f6

//

this->f6->BackColor = System::Drawing::Color::Black;

this->f6->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->f6->Location = System::Drawing::Point(529, 219);

this->f6->Name = L"f6";

this->f6->Size = System::Drawing::Size(64, 64);

this->f6->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->f6->TabIndex = 142;

this->f6->TabStop = false;

//

// e6

//

this->e6->BackColor = System::Drawing::Color::White;

this->e6->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->e6->Location = System::Drawing::Point(465, 219);

this->e6->Name = L"e6";

this->e6->Size = System::Drawing::Size(64, 64);

this->e6->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->e6->TabIndex = 141;

this->e6->TabStop = false;

//

// d6

//

this->d6->BackColor = System::Drawing::Color::Black;

this->d6->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->d6->Location = System::Drawing::Point(401, 219);

this->d6->Name = L"d6";

this->d6->Size = System::Drawing::Size(64, 64);

this->d6->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->d6->TabIndex = 140;

this->d6->TabStop = false;

//

// c6

//

this->c6->BackColor = System::Drawing::Color::White;

this->c6->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->c6->Location = System::Drawing::Point(337, 219);

this->c6->Name = L"c6";

this->c6->Size = System::Drawing::Size(64, 64);

this->c6->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->c6->TabIndex = 139;

this->c6->TabStop = false;

//

// b6

//

this->b6->BackColor = System::Drawing::Color::Black;

this->b6->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->b6->Location = System::Drawing::Point(273, 219);

this->b6->Name = L"b6";

this->b6->Size = System::Drawing::Size(64, 64);

this->b6->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->b6->TabIndex = 138;

this->b6->TabStop = false;

//

// a6

//

this->a6->BackColor = System::Drawing::Color::White;

this->a6->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->a6->Location = System::Drawing::Point(209, 219);

this->a6->Name = L"a6";

this->a6->Size = System::Drawing::Size(64, 64);

this->a6->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->a6->TabIndex = 137;

this->a6->TabStop = false;

//

// h7

//

this->h7->BackColor = System::Drawing::Color::White;

this->h7->Location = System::Drawing::Point(657, 155);

this->h7->Name = L"h7";

this->h7->Size = System::Drawing::Size(64, 64);

this->h7->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->h7->TabIndex = 136;

this->h7->TabStop = false;

//

// g7

//

this->g7->BackColor = System::Drawing::Color::Black;

this->g7->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->g7->Location = System::Drawing::Point(593, 155);

this->g7->Name = L"g7";

this->g7->Size = System::Drawing::Size(64, 64);

this->g7->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->g7->TabIndex = 135;

this->g7->TabStop = false;

//

// f7

//

this->f7->BackColor = System::Drawing::Color::White;

this->f7->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->f7->Location = System::Drawing::Point(529, 155);

this->f7->Name = L"f7";

this->f7->Size = System::Drawing::Size(64, 64);

this->f7->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->f7->TabIndex = 134;

this->f7->TabStop = false;

//

// e7

//

this->e7->BackColor = System::Drawing::Color::Black;

this->e7->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->e7->Location = System::Drawing::Point(465, 155);

this->e7->Name = L"e7";

this->e7->Size = System::Drawing::Size(64, 64);

this->e7->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->e7->TabIndex = 133;

this->e7->TabStop = false;

//

// d7

//

this->d7->BackColor = System::Drawing::Color::White;

this->d7->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->d7->Location = System::Drawing::Point(401, 155);

this->d7->Name = L"d7";

this->d7->Size = System::Drawing::Size(64, 64);

this->d7->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->d7->TabIndex = 132;

this->d7->TabStop = false;

//

// c7

//

this->c7->BackColor = System::Drawing::Color::Black;

this->c7->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->c7->Location = System::Drawing::Point(337, 155);

this->c7->Name = L"c7";

this->c7->Size = System::Drawing::Size(64, 64);

this->c7->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->c7->TabIndex = 131;

this->c7->TabStop = false;

//

// b7

//

this->b7->BackColor = System::Drawing::Color::White;

this->b7->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->b7->Location = System::Drawing::Point(273, 155);

this->b7->Name = L"b7";

this->b7->Size = System::Drawing::Size(64, 64);

this->b7->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->b7->TabIndex = 130;

this->b7->TabStop = false;

//

// a7

//

this->a7->BackColor = System::Drawing::Color::Black;

this->a7->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->a7->Location = System::Drawing::Point(209, 155);

this->a7->Name = L"a7";

this->a7->Size = System::Drawing::Size(64, 64);

this->a7->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->a7->TabIndex = 129;

this->a7->TabStop = false;

//

// h8

//

this->h8->BackColor = System::Drawing::Color::Black;

this->h8->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->h8->Location = System::Drawing::Point(657, 91);

this->h8->Name = L"h8";

this->h8->Size = System::Drawing::Size(64, 64);

this->h8->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->h8->TabIndex = 128;

this->h8->TabStop = false;

//

// g8

//

this->g8->BackColor = System::Drawing::Color::White;

this->g8->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->g8->Location = System::Drawing::Point(593, 91);

this->g8->Name = L"g8";

this->g8->Size = System::Drawing::Size(64, 64);

this->g8->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->g8->TabIndex = 127;

this->g8->TabStop = false;

//

// f8

//

this->f8->BackColor = System::Drawing::Color::Black;

this->f8->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->f8->Location = System::Drawing::Point(529, 91);

this->f8->Name = L"f8";

this->f8->Size = System::Drawing::Size(64, 64);

this->f8->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->f8->TabIndex = 126;

this->f8->TabStop = false;

//

// e8

//

this->e8->BackColor = System::Drawing::Color::White;

this->e8->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->e8->Location = System::Drawing::Point(465, 91);

this->e8->Name = L"e8";

this->e8->Size = System::Drawing::Size(64, 64);

this->e8->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->e8->TabIndex = 125;

this->e8->TabStop = false;

//

// d8

//

this->d8->BackColor = System::Drawing::Color::Black;

this->d8->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->d8->Location = System::Drawing::Point(401, 91);

this->d8->Name = L"d8";

this->d8->Size = System::Drawing::Size(64, 64);

this->d8->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->d8->TabIndex = 124;

this->d8->TabStop = false;

//

// c8

//

this->c8->BackColor = System::Drawing::Color::White;

this->c8->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->c8->Location = System::Drawing::Point(337, 91);

this->c8->Name = L"c8";

this->c8->Size = System::Drawing::Size(64, 64);

this->c8->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->c8->TabIndex = 123;

this->c8->TabStop = false;

//

// b8

//

this->b8->BackColor = System::Drawing::Color::Black;

this->b8->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->b8->Location = System::Drawing::Point(273, 91);

this->b8->Name = L"b8";

this->b8->Size = System::Drawing::Size(64, 64);

this->b8->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->b8->TabIndex = 122;

this->b8->TabStop = false;

//

// a8

//

this->a8->BackColor = System::Drawing::Color::White;

this->a8->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->a8->Location = System::Drawing::Point(209, 91);

this->a8->Name = L"a8";

this->a8->Size = System::Drawing::Size(64, 64);

this->a8->SizeMode = System::Windows::Forms::PictureBoxSizeMode::CenterImage;

this->a8->TabIndex = 121;

this->a8->TabStop = false;

//

// blackPawn

//

this->blackPawn->AllowDrop = true;

this->blackPawn->BackgroundImage = (cli::safe\_cast<System::Drawing::Image^>(resources->GetObject(L"blackPawn.BackgroundImage")));

this->blackPawn->FlatStyle = System::Windows::Forms::FlatStyle::Popup;

this->blackPawn->Location = System::Drawing::Point(599, 626);

this->blackPawn->Name = L"blackPawn";

this->blackPawn->Size = System::Drawing::Size(57, 57);

this->blackPawn->TabIndex = 120;

this->blackPawn->UseVisualStyleBackColor = true;

//

// blackKnight

//

this->blackKnight->AllowDrop = true;

this->blackKnight->BackgroundImage = (cli::safe\_cast<System::Drawing::Image^>(resources->GetObject(L"blackKnight.BackgroundImage")));

this->blackKnight->FlatStyle = System::Windows::Forms::FlatStyle::Popup;

this->blackKnight->Location = System::Drawing::Point(536, 625);

this->blackKnight->Name = L"blackKnight";

this->blackKnight->Size = System::Drawing::Size(57, 57);

this->blackKnight->TabIndex = 119;

this->blackKnight->UseVisualStyleBackColor = true;

//

// blackBishop

//

this->blackBishop->AllowDrop = true;

this->blackBishop->BackColor = System::Drawing::SystemColors::Control;

this->blackBishop->BackgroundImage = (cli::safe\_cast<System::Drawing::Image^>(resources->GetObject(L"blackBishop.BackgroundImage")));

this->blackBishop->FlatStyle = System::Windows::Forms::FlatStyle::Popup;

this->blackBishop->Location = System::Drawing::Point(473, 625);

this->blackBishop->Name = L"blackBishop";

this->blackBishop->Size = System::Drawing::Size(57, 57);

this->blackBishop->TabIndex = 118;

this->blackBishop->UseVisualStyleBackColor = false;

//

// blackRoof

//

this->blackRoof->AllowDrop = true;

this->blackRoof->BackgroundImage = (cli::safe\_cast<System::Drawing::Image^>(resources->GetObject(L"blackRoof.BackgroundImage")));

this->blackRoof->FlatStyle = System::Windows::Forms::FlatStyle::Popup;

this->blackRoof->Location = System::Drawing::Point(406, 625);

this->blackRoof->Name = L"blackRoof";

this->blackRoof->Size = System::Drawing::Size(51, 57);

this->blackRoof->TabIndex = 117;

this->blackRoof->UseVisualStyleBackColor = true;

//

// blackQueen

//

this->blackQueen->AllowDrop = true;

this->blackQueen->BackgroundImage = (cli::safe\_cast<System::Drawing::Image^>(resources->GetObject(L"blackQueen.BackgroundImage")));

this->blackQueen->FlatStyle = System::Windows::Forms::FlatStyle::Popup;

this->blackQueen->Location = System::Drawing::Point(337, 625);

this->blackQueen->Name = L"blackQueen";

this->blackQueen->Size = System::Drawing::Size(63, 57);

this->blackQueen->TabIndex = 116;

this->blackQueen->UseVisualStyleBackColor = true;

//

// blackKing

//

this->blackKing->AllowDrop = true;

this->blackKing->BackgroundImage = (cli::safe\_cast<System::Drawing::Image^>(resources->GetObject(L"blackKing.BackgroundImage")));

this->blackKing->FlatStyle = System::Windows::Forms::FlatStyle::Popup;

this->blackKing->ForeColor = System::Drawing::SystemColors::ButtonShadow;

this->blackKing->Location = System::Drawing::Point(274, 625);

this->blackKing->Name = L"blackKing";

this->blackKing->Size = System::Drawing::Size(57, 57);

this->blackKing->TabIndex = 115;

this->blackKing->UseVisualStyleBackColor = true;

//

// whitePawn

//

this->whitePawn->AllowDrop = true;

this->whitePawn->BackgroundImage = (cli::safe\_cast<System::Drawing::Image^>(resources->GetObject(L"whitePawn.BackgroundImage")));

this->whitePawn->FlatStyle = System::Windows::Forms::FlatStyle::Popup;

this->whitePawn->Location = System::Drawing::Point(598, 27);

this->whitePawn->Name = L"whitePawn";

this->whitePawn->Size = System::Drawing::Size(57, 58);

this->whitePawn->TabIndex = 114;

this->whitePawn->UseVisualStyleBackColor = true;

//

// whiteKnight

//

this->whiteKnight->AllowDrop = true;

this->whiteKnight->BackgroundImage = (cli::safe\_cast<System::Drawing::Image^>(resources->GetObject(L"whiteKnight.BackgroundImage")));

this->whiteKnight->FlatStyle = System::Windows::Forms::FlatStyle::Popup;

this->whiteKnight->Location = System::Drawing::Point(535, 27);

this->whiteKnight->Name = L"whiteKnight";

this->whiteKnight->Size = System::Drawing::Size(57, 57);

this->whiteKnight->TabIndex = 113;

this->whiteKnight->UseVisualStyleBackColor = true;

//

// whiteBishop

//

this->whiteBishop->AllowDrop = true;

this->whiteBishop->BackgroundImage = (cli::safe\_cast<System::Drawing::Image^>(resources->GetObject(L"whiteBishop.BackgroundImage")));

this->whiteBishop->FlatStyle = System::Windows::Forms::FlatStyle::Popup;

this->whiteBishop->Location = System::Drawing::Point(472, 27);

this->whiteBishop->Name = L"whiteBishop";

this->whiteBishop->Size = System::Drawing::Size(57, 57);

this->whiteBishop->TabIndex = 112;

this->whiteBishop->UseVisualStyleBackColor = true;

//

// whiteRoof

//

this->whiteRoof->AllowDrop = true;

this->whiteRoof->BackgroundImage = (cli::safe\_cast<System::Drawing::Image^>(resources->GetObject(L"whiteRoof.BackgroundImage")));

this->whiteRoof->FlatStyle = System::Windows::Forms::FlatStyle::Popup;

this->whiteRoof->Location = System::Drawing::Point(405, 28);

this->whiteRoof->Name = L"whiteRoof";

this->whiteRoof->Size = System::Drawing::Size(51, 57);

this->whiteRoof->TabIndex = 111;

this->whiteRoof->UseVisualStyleBackColor = true;

//

// whiteQueen

//

this->whiteQueen->AllowDrop = true;

this->whiteQueen->BackgroundImage = (cli::safe\_cast<System::Drawing::Image^>(resources->GetObject(L"whiteQueen.BackgroundImage")));

this->whiteQueen->FlatStyle = System::Windows::Forms::FlatStyle::Popup;

this->whiteQueen->Location = System::Drawing::Point(336, 27);

this->whiteQueen->Name = L"whiteQueen";

this->whiteQueen->Size = System::Drawing::Size(63, 57);

this->whiteQueen->TabIndex = 110;

this->whiteQueen->UseVisualStyleBackColor = true;

//

// whiteKing

//

this->whiteKing->AllowDrop = true;

this->whiteKing->BackColor = System::Drawing::SystemColors::Control;

this->whiteKing->BackgroundImage = (cli::safe\_cast<System::Drawing::Image^>(resources->GetObject(L"whiteKing.BackgroundImage")));

this->whiteKing->FlatAppearance->BorderColor = System::Drawing::SystemColors::Control;

this->whiteKing->FlatStyle = System::Windows::Forms::FlatStyle::Popup;

this->whiteKing->Location = System::Drawing::Point(273, 27);

this->whiteKing->Name = L"whiteKing";

this->whiteKing->Size = System::Drawing::Size(57, 57);

this->whiteKing->TabIndex = 109;

this->whiteKing->UseVisualStyleBackColor = false;

//

// menuStrip1

//

this->menuStrip1->ImageScalingSize = System::Drawing::Size(20, 20);

this->menuStrip1->Items->AddRange(gcnew cli::array< System::Windows::Forms::ToolStripItem^ >(1) { this->файлToolStripMenuItem });

this->menuStrip1->Location = System::Drawing::Point(0, 0);

this->menuStrip1->Name = L"menuStrip1";

this->menuStrip1->Padding = System::Windows::Forms::Padding(4, 2, 0, 2);

this->menuStrip1->Size = System::Drawing::Size(924, 24);

this->menuStrip1->TabIndex = 202;

this->menuStrip1->Text = L"menuStrip1";

//

// ChessBoardEditor

//

this->AutoScaleDimensions = System::Drawing::SizeF(6, 13);

this->AutoScaleMode = System::Windows::Forms::AutoScaleMode::Font;

this->BackColor = System::Drawing::SystemColors::Info;

this->ClientSize = System::Drawing::Size(924, 685);

this->Controls->Add(this->clearButton);

this->Controls->Add(this->label16);

this->Controls->Add(this->label15);

this->Controls->Add(this->label14);

this->Controls->Add(this->label13);

this->Controls->Add(this->label12);

this->Controls->Add(this->label11);

this->Controls->Add(this->label10);

this->Controls->Add(this->label9);

this->Controls->Add(this->label8);

this->Controls->Add(this->label7);

this->Controls->Add(this->label6);

this->Controls->Add(this->label5);

this->Controls->Add(this->label4);

this->Controls->Add(this->label3);

this->Controls->Add(this->label2);

this->Controls->Add(this->label1);

this->Controls->Add(this->h1);

this->Controls->Add(this->g1);

this->Controls->Add(this->f1);

this->Controls->Add(this->e1);

this->Controls->Add(this->d1);

this->Controls->Add(this->c1);

this->Controls->Add(this->b1);

this->Controls->Add(this->a1);

this->Controls->Add(this->h2);

this->Controls->Add(this->g2);

this->Controls->Add(this->f2);

this->Controls->Add(this->e2);

this->Controls->Add(this->d2);

this->Controls->Add(this->c2);

this->Controls->Add(this->b2);

this->Controls->Add(this->a2);

this->Controls->Add(this->h3);

this->Controls->Add(this->g3);

this->Controls->Add(this->f3);

this->Controls->Add(this->e3);

this->Controls->Add(this->d3);

this->Controls->Add(this->c3);

this->Controls->Add(this->b3);

this->Controls->Add(this->a3);

this->Controls->Add(this->h4);

this->Controls->Add(this->g4);

this->Controls->Add(this->f4);

this->Controls->Add(this->e4);

this->Controls->Add(this->d4);

this->Controls->Add(this->c4);

this->Controls->Add(this->b4);

this->Controls->Add(this->a4);

this->Controls->Add(this->h5);

this->Controls->Add(this->g5);

this->Controls->Add(this->f5);

this->Controls->Add(this->e5);

this->Controls->Add(this->d5);

this->Controls->Add(this->c5);

this->Controls->Add(this->b5);

this->Controls->Add(this->a5);

this->Controls->Add(this->h6);

this->Controls->Add(this->g6);

this->Controls->Add(this->f6);

this->Controls->Add(this->e6);

this->Controls->Add(this->d6);

this->Controls->Add(this->c6);

this->Controls->Add(this->b6);

this->Controls->Add(this->a6);

this->Controls->Add(this->h7);

this->Controls->Add(this->g7);

this->Controls->Add(this->f7);

this->Controls->Add(this->e7);

this->Controls->Add(this->d7);

this->Controls->Add(this->c7);

this->Controls->Add(this->b7);

this->Controls->Add(this->a7);

this->Controls->Add(this->h8);

this->Controls->Add(this->g8);

this->Controls->Add(this->f8);

this->Controls->Add(this->e8);

this->Controls->Add(this->d8);

this->Controls->Add(this->c8);

this->Controls->Add(this->b8);

this->Controls->Add(this->a8);

this->Controls->Add(this->blackPawn);

this->Controls->Add(this->blackKnight);

this->Controls->Add(this->blackBishop);

this->Controls->Add(this->blackRoof);

this->Controls->Add(this->blackQueen);

this->Controls->Add(this->blackKing);

this->Controls->Add(this->whitePawn);

this->Controls->Add(this->whiteKnight);

this->Controls->Add(this->whiteBishop);

this->Controls->Add(this->whiteRoof);

this->Controls->Add(this->whiteQueen);

this->Controls->Add(this->whiteKing);

this->Controls->Add(this->menuStrip1);

this->ForeColor = System::Drawing::Color::Black;

this->Icon = (cli::safe\_cast<System::Drawing::Icon^>(resources->GetObject(L"$this.Icon")));

this->MainMenuStrip = this->menuStrip1;

this->Name = L"ChessBoardEditor";

this->Text = L"ChessGame";

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h1))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g1))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f1))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e1))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d1))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c1))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b1))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a1))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h2))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g2))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f2))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e2))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d2))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c2))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b2))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a2))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h3))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g3))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f3))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e3))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d3))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c3))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b3))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a3))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h4))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g4))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f4))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e4))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d4))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c4))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b4))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a4))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h5))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g5))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f5))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e5))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d5))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c5))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b5))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a5))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h6))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g6))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f6))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e6))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d6))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c6))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b6))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a6))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h7))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g7))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f7))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e7))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d7))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c7))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b7))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a7))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->h8))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->g8))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->f8))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->e8))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->d8))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->c8))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->b8))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^>(this->a8))->EndInit();

this->menuStrip1->ResumeLayout(false);

this->menuStrip1->PerformLayout();

this->ResumeLayout(false);

this->PerformLayout();

}

#pragma endregion

};

public ref class Figure

{

public: String^ location;

public: String^ name;

public: String^ color;

};

}