```
using System;
using System.CodeDom.Compiler;
using System.Collections.Generic;
using System. Diagnostics;
using System.IO;
using System.Linq;
using System.Threading.Tasks;
using System.Reflection;
using System.Runtime.CompilerServices;
using System.Runtime.InteropServices;
namespace BrainfxxkCompiler.Properties {
    [global::System.Runtime.CompilerServices.CompilerGeneratedAttribute()]
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("Microsoft.VisualStudio.Editors.Settings
Designer.SettingsSingleFileGenerator", "17.11.0.0")]
    internal sealed partial class Settings: global::System.Configuration.ApplicationSettingsBase {
         private
                            static
                                               Settings
                                                                   defaultInstance
                                                                                               =
((Settings)(global::System.Configuration.ApplicationSettingsBase.Synchronized(new Settings())));
         public static Settings Default {
             get {
                  return defaultInstance;
         }
    }
}
namespace BrainfxxkCompiler
    partial class Form1
    {
         private System.ComponentModel.IContainer components = null;
         protected override void Dispose(bool disposing)
             if (disposing && (components != null))
             {
                  components.Dispose();
             base.Dispose(disposing);
         #region Windows 窗体设计器生成的代码
         private void InitializeComponent()
             this.components = new System.ComponentModel.Container();
             System.ComponentModel.ComponentResourceManager
                                                                        resources
                                                                                            new
System.ComponentModel.ComponentResourceManager(typeof(Form1));
             this.splitContainer1 = new System.Windows.Forms.SplitContainer();
             this.codeBox = new FastColoredTextBoxNS.FastColoredTextBox();
             this.splitContainer2 = new System.Windows.Forms.SplitContainer();
             this.resultBox = new System.Windows.Forms.RichTextBox();
             this.resultDataBox = new System.Windows.Forms.ListBox();
             this.toolStrip1 = new System.Windows.Forms.ToolStrip();
```

'(', ')', **'**{', '}', '[ˈ, ']',

```
this.runBFButton = new System.Windows.Forms.ToolStripButton();
             this.toolStripSeparator1 = new System.Windows.Forms.ToolStripSeparator();
             this.compileBFButton = new System.Windows.Forms.ToolStripButton();
             this.toolStripLabel2 = new System.Windows.Forms.ToolStripLabel();
             this.compilePath = new System.Windows.Forms.ToolStripTextBox();
             this.toolStripLabel1 = new System.Windows.Forms.ToolStripLabel();
             this.fileName = new System.Windows.Forms.ToolStripTextBox();
             this.toolStripSeparator2 = new System.Windows.Forms.ToolStripSeparator();
             this.timer1 = new System.Windows.Forms.Timer(this.components);
             ((System.ComponentModel.ISupportInitialize)(this.splitContainer1)).BeginInit();
             this.splitContainer1.Panel1.SuspendLayout();
             this.splitContainer1.Panel2.SuspendLayout();
             this.splitContainer1.SuspendLayout();
             ((System.ComponentModel.ISupportInitialize)(this.codeBox)).BeginInit();
             ((System.ComponentModel.ISupportInitialize)(this.splitContainer2)).BeginInit();
             this.splitContainer2.Panel1.SuspendLayout();
             this.splitContainer2.Panel2.SuspendLayout();
             this.splitContainer2.SuspendLayout();
             this.toolStrip1.SuspendLayout();
             this.SuspendLayout();
             this.splitContainer1.Dock = System.Windows.Forms.DockStyle.Fill;
             this.splitContainer1.Location = new System.Drawing.Point(0, 27);
             this.splitContainer1.Name = "splitContainer1";
             this.splitContainer1.Orientation = System.Windows.Forms.Orientation.Horizontal;
             this.splitContainer1.Panel1.Controls.Add(this.codeBox);
             this.splitContainer1.Panel2.Controls.Add(this.splitContainer2);
             this.splitContainer1.Size = new System.Drawing.Size(1029, 536);
             this.splitContainer1.SplitterDistance = 325;
             this.splitContainer1.TabIndex = 0;
             this.codeBox.AutoCompleteBracketsList = new char[] {
         '\''',
         '\'',
         '\''};
             this.codeBox.AutoScrollMinSize = new System.Drawing.Size(33, 20);
             this.codeBox.BackBrush = null;
             this.codeBox.CharHeight = 20;
             this.codeBox.CharWidth = 11:
             this.codeBox.Cursor = System.Windows.Forms.Cursors.IBeam;
             this.codeBox.DisabledColor = System.Drawing.Color.FromArgb(((int)(((byte)(100)))),
((int)(((byte)(180)))), ((int)(((byte)(180)))), ((int)(((byte)(180))));
             this.codeBox.Dock = System.Windows.Forms.DockStyle.Fill;
             this.codeBox.Font = new System.Drawing.Font("Courier New", 10.8F);
             this.codeBox.ImeMode = System.Windows.Forms.ImeMode.On;
```

```
this.codeBox.lsReplaceMode = false;
              this.codeBox.Location = new System.Drawing.Point(0, 0);
              this.codeBox.Name = "codeBox";
              this.codeBox.Paddings = new System.Windows.Forms.Padding(0);
              this.codeBox.SelectionColor = System.Drawing.Color.FromArgb(((int)(((byte)(60)))),
((int)(((byte)(0)))), ((int)(((byte)(0)))), ((int)(((byte)(255)))));
             this.codeBox.ServiceColors
((FastColoredTextBoxNS.ServiceColors)(resources.GetObject("codeBox.ServiceColors")));
             this.codeBox.Size = new System.Drawing.Size(1029, 325);
             this.codeBox.TabIndex = 0;
              this.codeBox.Zoom = 100;
              this.codeBox.TextChanged
                                                                                                new
System.EventHandler<FastColoredTextBoxNS.TextChangedEventArgs>(this.codeBox_TextChanged);
             this.splitContainer2.Dock = System.Windows.Forms.DockStyle.Fill;
              this.splitContainer2.Location = new System.Drawing.Point(0, 0);
              this.splitContainer2.Name = "splitContainer2";
              this.splitContainer2.Panel1.Controls.Add(this.resultBox);
              this.splitContainer2.Panel2.Controls.Add(this.resultDataBox);
              this.splitContainer2.Size = new System.Drawing.Size(1029, 207);
              this.splitContainer2.SplitterDistance = 810;
              this.splitContainer2.TabIndex = 0;
              this.resultBox.BackColor = System.Drawing.SystemColors.Window;
              this.resultBox.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
              this.resultBox.Dock = System.Windows.Forms.DockStyle.Fill;
              this.resultBox.Location = new System.Drawing.Point(0, 0);
              this.resultBox.Name = "resultBox";
              this.resultBox.ReadOnly = true;
              this.resultBox.Size = new System.Drawing.Size(810, 207);
              this.resultBox.TabIndex = 0;
              this.resultBox.Text = "";
              this.resultDataBox.Dock = System.Windows.Forms.DockStyle.Fill;
              this.resultDataBox.FormattingEnabled = true;
              this.resultDataBox.ltemHeight = 15;
              this.resultDataBox.Location = new System.Drawing.Point(0, 0);
              this.resultDataBox.Name = "resultDataBox";
              this.resultDataBox.Size = new System.Drawing.Size(215, 207);
              this.resultDataBox.TabIndex = 0;
              this.toolStrip1.lmageScalingSize = new System.Drawing.Size(20, 20);
              this.toolStrip1.ltems.AddRange(new System.Windows.Forms.ToolStripItem[] {
              this.runBFButton,
              this.toolStripSeparator1,
              this.compileBFButton,
              this.toolStripLabel2,
              this.compilePath.
              this.toolStripLabel1,
              this.fileName,
              this.toolStripSeparator2});
              this.toolStrip1.Location = new System.Drawing.Point(0, 0);
              this.toolStrip1.Name = "toolStrip1";
              this.toolStrip1.Size = new System.Drawing.Size(1029, 27);
```

```
this.toolStrip1.TabIndex = 1;
             this.toolStrip1.Text = "toolStrip1";
             this.toolStrip1.ltemClicked
                                                                                             new
System.Windows.Forms.ToolStripItemClickedEventHandler(this.toolStrip1_ItemClicked);
             this.runBFButton.DisplayStyle
                                                                                                =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
             this.runBFButton.lmage
                                                                                                =
((System.Drawing.Image)(resources.GetObject("runBFButton.Image")));
             this.runBFButton.lmageTransparentColor = System.Drawing.Color.Magenta;
             this.runBFButton.Name = "runBFButton";
             this.runBFButton.Size = new System.Drawing.Size(29, 24);
             this.runBFButton.Text = "运行";
             this.runBFButton.Click += new System.EventHandler(this.runBFButton_Click);
             this.toolStripSeparator1.Name = "toolStripSeparator1";
             this.toolStripSeparator1.Size = new System.Drawing.Size(6, 27);
             this.compileBFButton.DisplayStyle
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
             this.compileBFButton.lmage
((System.Drawing.Image)(resources.GetObject("compileBFButton.Image")));
             this.compileBFButton.lmageTransparentColor = System.Drawing.Color.Magenta;
             this.compileBFButton.Name = "compileBFButton";
             this.compileBFButton.Size = new System.Drawing.Size(29, 24);
             this.compileBFButton.Text = "编译为控制台程序";
             this.compileBFButton.Click += new System.EventHandler(this.compileBFButton_Click);
             this.toolStripLabel2.Name = "toolStripLabel2";
             this.toolStripLabel2.Size = new System.Drawing.Size(103, 24);
             this.toolStripLabel2.Text = "编译输出位置:";
             this.compilePath.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
             this.compilePath.Font = new System.Drawing.Font("Microsoft YaHei UI", 9F);
             this.compilePath.Name = "compilePath";
             this.compilePath.Size = new System.Drawing.Size(100, 27);
             this.toolStripLabel1.Name = "toolStripLabel1";
             this.toolStripLabel1.Size = new System.Drawing.Size(43, 24);
             this.toolStripLabel1.Text = "名称:";
             this.fileName.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
             this.fileName.Font = new System.Drawing.Font("Microsoft YaHei UI", 9F);
             this.fileName.Name = "fileName";
             this.fileName.Size = new System.Drawing.Size(100, 27);
             this.fileName.Text = "BF";
             this.fileName.TextChanged += new System.EventHandler(this.fileName_TextChanged);
             this.toolStripSeparator2.Name = "toolStripSeparator2";
             this.toolStripSeparator2.Size = new System.Drawing.Size(6, 27);
             this.timer1.Interval = 1000;
             this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 15F);
             this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
             this.ClientSize = new System.Drawing.Size(1029, 563);
             this.Controls.Add(this.splitContainer1);
             this.Controls.Add(this.toolStrip1);
             this.Name = "Form1";
             this.Showlcon = false;
```

```
this.Text = "Brainfxxk 编译器";
              this.splitContainer1.Panel1.ResumeLavout(false):
              this.splitContainer1.Panel2.ResumeLayout(false);
              ((System.ComponentModel.ISupportInitialize)(this.splitContainer1)).EndInit();
              this.splitContainer1.ResumeLayout(false);
              ((System.ComponentModel.ISupportInitialize)(this.codeBox)).EndInit();
              this.splitContainer2.Panel1.ResumeLayout(false);
              this.splitContainer2.Panel2.ResumeLayout(false);
              ((System.ComponentModel.ISupportInitialize)(this.splitContainer2)).EndInit();
              this.splitContainer2.ResumeLayout(false);
              this.toolStrip1.ResumeLayout(false);
              this.toolStrip1.PerformLayout();
              this.ResumeLayout(false);
              this.PerformLayout();
         }
         #endregion
         private System.Windows.Forms.SplitContainer splitContainer1;
         private System.Windows.Forms.RichTextBox resultBox;
         private System.Windows.Forms.ToolStrip toolStrip1;
         private System. Windows. Forms. Tool Strip Button run BFB utton;
         private System. Windows. Forms. Tool Strip Button compile BFButton;
         private System. Windows. Forms. Tool Strip Separator tool Strip Separator 1;
         private System.Windows.Forms.ToolStripLabel toolStripLabel1;
         private System.Windows.Forms.ToolStripTextBox fileName;
         private System. Windows. Forms. Tool Strip Separator tool Strip Separator 2;
         private System.Windows.Forms.Timer timer1;
         private System.Windows.Forms.ToolStripLabel toolStripLabel2;
         private System.Windows.Forms.ToolStripTextBox compilePath;
         private System. Windows. Forms. Split Container split Container 2;
         private System.Windows.Forms.ListBox resultDataBox;
         private FastColoredTextBoxNS.FastColoredTextBox codeBox;
    }
}
using System;
using System.CodeDom.Compiler;
using System.Collections.Generic;
using System. Diagnostics;
using System.IO;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using System.Reflection;
using System.Runtime.CompilerServices;
using System.Runtime.InteropServices;
[assembly:
global::System.Runtime.Versioning.TargetFrameworkAttribute(".NETFramework,Version=v4.8",
FrameworkDisplayName = ".NET Framework 4.8")]
namespace BrainfxxkCompiler
    partial class InputIntDialog
```

}

```
{
    private System.ComponentModel.IContainer components = null;
    protected override void Dispose(bool disposing)
         if (disposing && (components != null))
        {
             components.Dispose();
         base.Dispose(disposing);
    }
    #region Windows Form Designer generated code
    private void InitializeComponent()
    {
         this.numericUpDown1 = new System.Windows.Forms.NumericUpDown();
         this.okButton = new System.Windows.Forms.Button();
         ((System.ComponentModel.ISupportInitialize)(this.numericUpDown1)).BeginInit();
         this.SuspendLayout();
         this.numericUpDown1.Location = new System.Drawing.Point(12, 12);
         this.numericUpDown1.Name = "numericUpDown1";
         this.numericUpDown1.Size = new System.Drawing.Size(218, 25);
         this.numericUpDown1.TabIndex = 0;
         this.okButton.Location = new System.Drawing.Point(136, 43);
         this.okButton.Name = "okButton";
        this.okButton.Size = new System.Drawing.Size(94, 40);
         this.okButton.TabIndex = 1;
         this.okButton.Text = "确定";
         this.okButton.UseVisualStyleBackColor = true;
         this.okButton.Click += new System.EventHandler(this.okButton_Click);
         this.AcceptButton = this.okButton;
         this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 15F);
         this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
         this.ClientSize = new System.Drawing.Size(242, 95);
         this.ControlBox = false;
         this.Controls.Add(this.okButton);
        this.Controls.Add(this.numericUpDown1);
        this.FormBorderStyle = System.Windows.Forms.FormBorderStyle.FixedDialog;
         this.MaximizeBox = false;
        this.MinimizeBox = false;
        this.Name = "InputIntDialog";
        this.Showlcon = false;
        this.StartPosition = System.Windows.FormS.FormStartPosition.CenterParent;
        this.Text = "输入 ASCII 码";
        ((System. Component Model. I Support Initialize) (this.numeric UpDown 1)). End Init();\\
         this.ResumeLayout(false);
    }
    #endregion
    private System.Windows.Forms.NumericUpDown numericUpDown1;
    private System. Windows. Forms. Button ok Button;
}
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace BrainfxxkCompiler
    public class BFInterpreter
    {
         private int dataLength;
         public int DataLength
              get => dataLength;
         private int pointer;
         public int Pointer
             get => pointer;
         private string code;
         public BFInterpreter(int dataLength, string code)
             this.dataLength = dataLength;
             this.pointer = 0;
             this.code = code;
         }
    }
using System;
using System.Collections.Generic;
using System.Ling;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace BrainfxxkCompiler
    internal static class Program
    {
         [STAThread]
         static void Main()
         {
              Application.EnableVisualStyles();
             Application.SetCompatibleTextRenderingDefault(false);
             Application.Run(new Form1());
         }
    }
using FastColoredTextBoxNS;
using System;
using System.Collections.Generic;
using System.ComponentModel;
```

```
using System.Data;
using System. Diagnostics;
using System.Drawing;
using System.IO;
using System.Linq;
using System.Text;
using System.Text.RegularExpressions;
using System. Threading;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Reflection;
using System.Runtime.CompilerServices;
using System.Runtime.InteropServices;
namespace BrainfxxkCompiler
{
    public partial class Form1: Form
    {
         Thread listUpdater = new Thread(() => { });
         Style GreenStyle = new TextStyle(Brushes.Green, null, FontStyle.Regular);
         Style BlueStyle = new TextStyle(Brushes.Blue, null, FontStyle.Bold);
         Style GrayStyle = new TextStyle(Brushes.Gray, null, FontStyle.Regular);
         Style BlackStyle = new TextStyle(Brushes.Black, null, FontStyle.Bold);
         public Form1()
         {
              InitializeComponent();
              CheckForlllegalCrossThreadCalls = false;
              codeBox.DefaultStyle = (TextStyle)BlackStyle;
         }
         private void compileBFButton_Click(object sender, EventArgs e)
              string path = compilePath.Text + fileName.Text + ".exe";
              BFCompiler.BFToExe(codeBox.Text, path);
              MessageBox.Show("编译完成");
              Process.Start("explorer.exe", "/select, " + path);
         private void runBFButton_Click(object sender, EventArgs e)
         {
              resultBox.Text = BFCompiler.Run(codeBox.Text, out int[] data);
              if (listUpdater.ThreadState == System.Threading.ThreadState.Running)
              {
                  listUpdater.Abort();
              listUpdater = new Thread(() =>
                  if (resultDataBox.ltems.Count != BFCompiler.dataLength)
                  {
                       resultDataBox.Items.Clear();
                       for (int i = 0; i < data.Length; i++)
                            resultDataBox.ltems.Add($"[{i}]" + "\t" + data[i]);
```

```
}
                       return;
                  }
                  for (int i = 0; i < BFCompiler.dataLength; i++)
                       var o = resultDataBox.ltems[i];
                                         =
                                                o.ToString().Split(new
                                                                                           ']'
                                                                          char∏
                                                                                     {
                                                                                                  },
                       string
                                  oS
StringSplitOptions.RemoveEmptyEntries)[1];
                       if (int.Parse(oS) != data[i])
                            resultDataBox.ltems[i] = (\$"[{i}]" + "\t" + data[i]);
                       }
                  }
              });
              listUpdater.Start();
         private void toolStrip1_ItemClicked(object sender, ToolStripItemClickedEventArgs e)
         }
         private void fileName_TextChanged(object sender, EventArgs e)
              if (fileName.TextLength < 1)
              {
                  fileName.Text = "BF";
         }
         private void codeBox_TextChanged(object sender, TextChangedEventArgs e)
              e.ChangedRange.ClearStyle(GreenStyle);
              e.ChangedRange.SetStyle(GreenStyle, @"
              e.ChangedRange.SetStyle(BlueStyle, @"[\[\]]", RegexOptions.Multiline);
              e.ChangedRange.SetStyle(GrayStyle, @"[^\>\<\+\-\.\,\[\]]", RegexOptions.Multiline);
         }
    }
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Reflection;
using System.Runtime.CompilerServices;
using System.Runtime.InteropServices;
namespace BrainfxxkCompiler
    public partial class InputIntDialog: Form
```

```
{
         public int num;
         public InputIntDialog()
              InitializeComponent();
         private void okButton_Click(object sender, EventArgs e)
              num = (int)numericUpDown1.Value;
              DialogResult = DialogResult.OK;
              this.Hide();
         }
    }
}
using System;
using System.CodeDom.Compiler;
using System.Collections.Generic;
using System. Diagnostics;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Reflection;
using System.Runtime.CompilerServices;
using System.Runtime.InteropServices;
namespace BrainfxxkCompiler
    public static class BFCompiler
    {
         public static int dataLength = 3000;
         public static string Run(string code, out int[] data)
         {
              int dataPointer = 0;
              int instructionPointer = 0;
              data = new int[dataLength];
              Stack<int> loopStack = new Stack<int>();
              StringBuilder output = new StringBuilder();
              while (instructionPointer < code.Length)
              {
                  char currentInstruction = code[instructionPointer];
                  switch (currentInstruction)
                  {
                       case '>':
                            dataPointer++:
                            break:
                       case '<':
                            dataPointer--;
                            break:
                       case '+':
                            data[dataPointer]++;
```

break;

```
case '-':
              data[dataPointer]--;
              break;
         case '.':
              output.Append((char)data[dataPointer]);
              break;
         case ',':
              InputIntDialog intDialog = new InputIntDialog();
              if (intDialog.ShowDialog() == System.Windows.Forms.DialogResult.OK)
                   i = intDialog.num;
              data[dataPointer] = i;
              break;
         case '[':
              if (data[dataPointer] == 0)
                   int loopCount = 1;
                   while (loopCount > 0)
                       instructionPointer++;
                       if (code[instructionPointer] == '[')
                            loopCount++;
                       else if (code[instructionPointer] == ']')
                            loopCount--;
                   }
              }
              else
                   loopStack.Push(instructionPointer);
              break;
         case ']':
              if (data[dataPointer] != 0)
              {
                   instructionPointer = loopStack.Peek();
              }
              else
                   loopStack.Pop();
              break:
         default:
              break;
    }
    instructionPointer++;
return output.ToString();
```

```
}
         public static string CompileToCSharp(string brainfuckCode)
             StringBuilder cSharpCode = new StringBuilder();
             cSharpCode.AppendLine("using System;");
             cSharpCode.AppendLine("using System.Collections.Generic;");
             cSharpCode.AppendLine("using System.Text;");
             cSharpCode.AppendLine("namespace BrainfuckProgram");
             cSharpCode.AppendLine("{");
             cSharpCode.AppendLine("class Program");
             cSharpCode.AppendLine("{");
             cSharpCode.AppendLine("static void Main(string[] args)");
             cSharpCode.AppendLine("{");
             cSharpCode.AppendLine($"byte[] memory = new byte[{dataLength}];");
             cSharpCode.AppendLine("int pointer = 0;");
             cSharpCode.AppendLine("List<char> output = new List<char>();");
             cSharpCode.AppendLine("int inputIndex = 0;");
             cSharpCode.AppendLine("try");
             cSharpCode.AppendLine("{");
             for (int i = 0; i < brainfuckCode.Length; i++)
             {
                  char c = brainfuckCode[i];
                  switch (c)
                  {
                      case '>':
                           cSharpCode.AppendLine("pointer++;");
                           break:
                      case '<':
                           cSharpCode.AppendLine("pointer--;");
                           break:
                      case '+':
                           cSharpCode.AppendLine("memory[pointer]++;");
                      case '-':
                           cSharpCode.AppendLine("memory[pointer]--;");
                      case '.':
                           cSharpCode.AppendLine("output.Add((char)memory[pointer]);");
                           break;
                      case ',':
                           cSharpCode.AppendLine("Console.WriteLine(\"请输入 ASCII 码\");");
                           cSharpCode.AppendLine("memory[pointer]
                                                                                               =
byte.Parse(Console.ReadLine());");
                           break:
                      case '[':
                           cSharpCode.AppendLine("while (memory[pointer] != 0)");
                           cSharpCode.AppendLine("{");
                           break:
                      case ']':
                           cSharpCode.AppendLine("}");
```

```
break;
                  }
             }
             cSharpCode.AppendLine("}");
             cSharpCode.AppendLine("catch (Exception ex)");
             cSharpCode.AppendLine("{");
             cSharpCode.AppendLine("Console.WriteLine(ex.Message);");
             cSharpCode.AppendLine("}");
             cSharpCode.AppendLine("Console.WriteLine(new string(output.ToArray()));");
             cSharpCode.AppendLine("Console.ReadKey();");
             cSharpCode.AppendLine("}");
             cSharpCode.AppendLine("}");
             cSharpCode.AppendLine("}");
             return cSharpCode.ToString();
        }
        static void CompileToExe(string cSharpCode, string outputFilePath)
        {
             CodeDomProvider codeProvider = CodeDomProvider.CreateProvider("CSharp");
             CompilerParameters compilerParams = new CompilerParameters();
             compilerParams.GenerateExecutable = true;
             compilerParams.OutputAssembly = outputFilePath;
             CompilerResults
                                                      compilerResults
                                                                                               =
codeProvider.CompileAssemblyFromSource(compilerParams, cSharpCode);
             if (compilerResults.Errors.Count > 0)
             {
                  foreach (CompilerError error in compilerResults.Errors)
                      if (!error.lsWarning)
                          throw new Exception(error.ErrorText);
                  }
             }
        }
         public static void BFToExe(string brainfuckCode, string outputFilePath)
             CompileToExe(CompileToCSharp(brainfuckCode), outputFilePath);
        }
    }
using System;
using System.Reflection;
[assembly:
global::System.Runtime.Versioning.TargetFrameworkAttribute(".NETFramework,Version=v4.8",
FrameworkDisplayName = ".NET Framework 4.8")]
namespace BrainfxxkCompiler.Properties {
    using System;
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Resources.Tools.StronglyType
dResourceBuilder", "17.0.0.0")]
    [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
    [global::System.Runtime.CompilerServices.CompilerGeneratedAttribute()]
```

```
internal class Resources {
                    private static global::System.Resources.ResourceManager resourceMan;
                    private static global::System.Globalization.CultureInfo resourceCulture;
[global::System.Diagnostics.CodeAnalysis.SuppressMessageAttribute("Microsoft.Performance",
"CA1811:AvoidUncalledPrivateCode")]
                   internal Resources() {
[global::System.ComponentModel.EditorBrowsableAttribute(global::System.ComponentModel.Editor
BrowsableState.Advanced)]
                    internal static global::System.Resources.ResourceManager ResourceManager {
                              qet {
                                        if (object.ReferenceEquals(resourceMan, null)) {
                                                  global::System.Resources.ResourceManager
                                                                                                                                                               temp
                                                                                                                                                                                                              new
global::System.Resources.ResourceManager("BrainfxxkCompiler.Properties.Resources",
typeof(Resources). Assembly);
                                                  resourceMan = temp;
                                        }
                                        return resourceMan;
                             }
                   }
[global::System.Component Model. Editor Browsable Attribute (global::System. Component Model. Editor Browsable (global::System. Component Model. Editor
BrowsableState.Advanced)]
                   internal static global::System.Globalization.CultureInfo Culture {
                              get {
                                        return resourceCulture;
                             }
                             set {
                                        resourceCulture = value;
                   }
         }
using System.Reflection;
using System.Runtime.CompilerServices;
using System.Runtime.InteropServices;
[assembly: AssemblyTitle("BrainfuckCompiler")]
[assembly: AssemblyDescription("")]
[assembly: AssemblyConfiguration("")]
[assembly: AssemblyCompany("LX")]
[assembly: AssemblyProduct("BrainfuckCompiler")]
[assembly: AssemblyCopyright("Copyright © LX 2023")]
[assembly: AssemblyTrademark("")]
[assembly: AssemblyCulture("")]
[assembly: ComVisible(false)]
[assembly: Guid("2b056b14-b42d-4aac-b378-56082f2c8f33")]
[assembly: AssemblyVersion("1.0.0.0")]
[assembly: AssemblyFileVersion("1.0.0.0")]
```