



## Basic Calculator in C#

In this article, I am going to build a basic calculator in C#.



Priyanka Jain

Aug 26 2013

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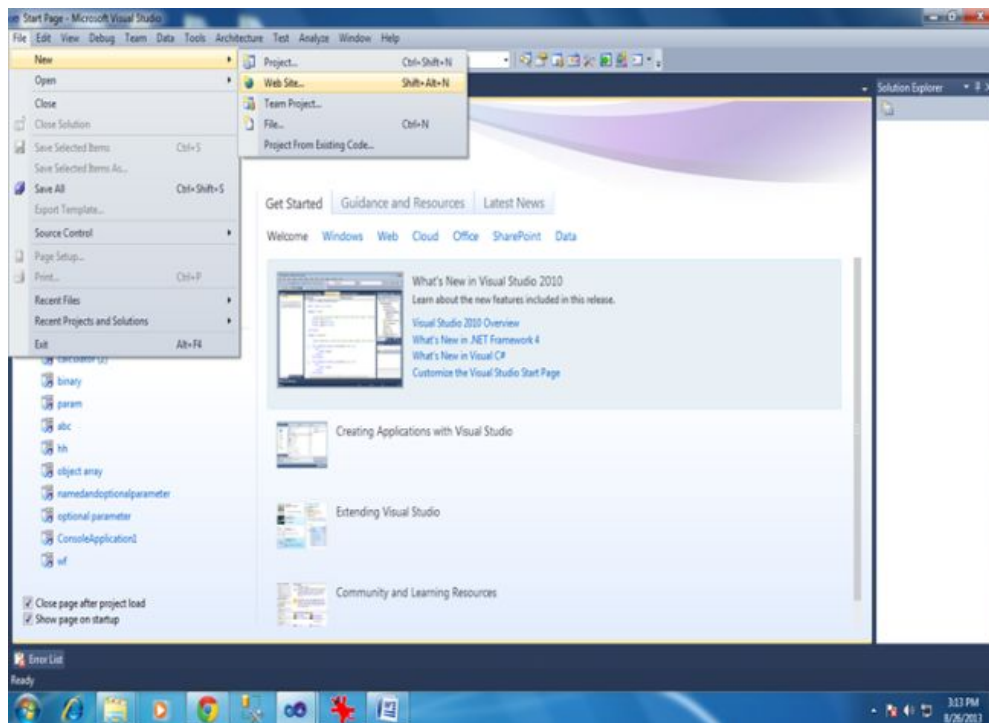
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**Here is a procedure to create a basic calculator. In this section I will build a basic calculator that can perform the following operations:**

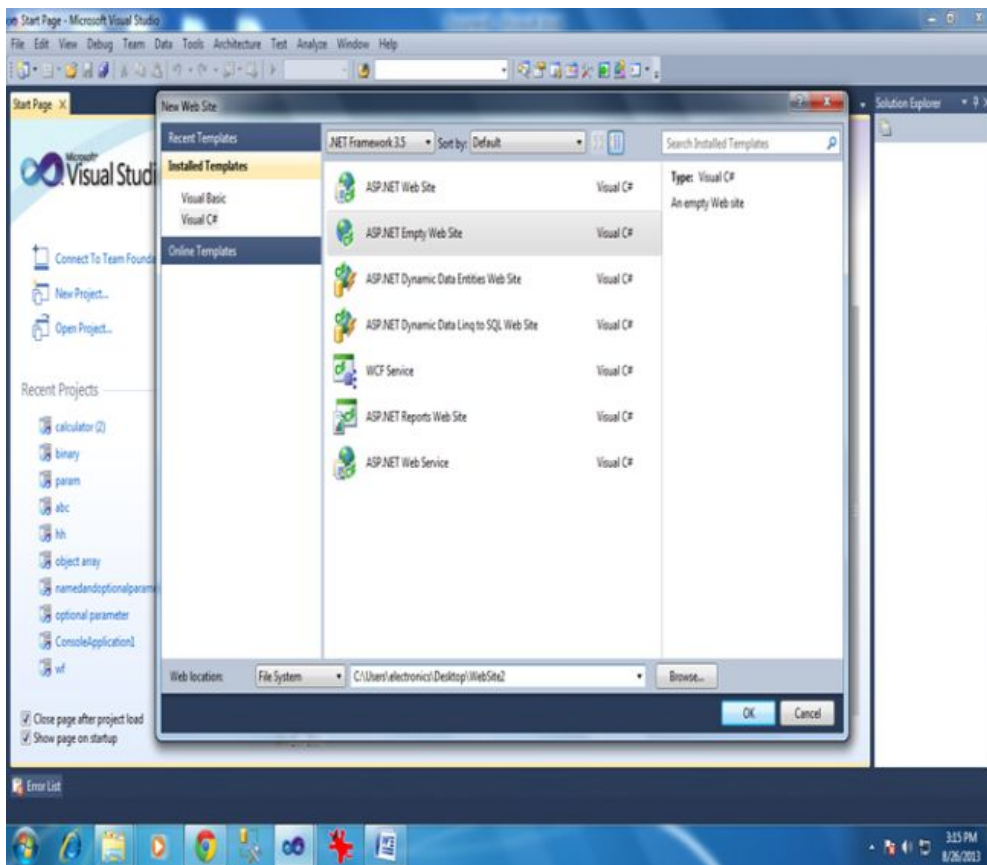
- **Addition**
- **Subtraction**
- **Multiplication**
- **Division**
- **Clear**

**Steps:**

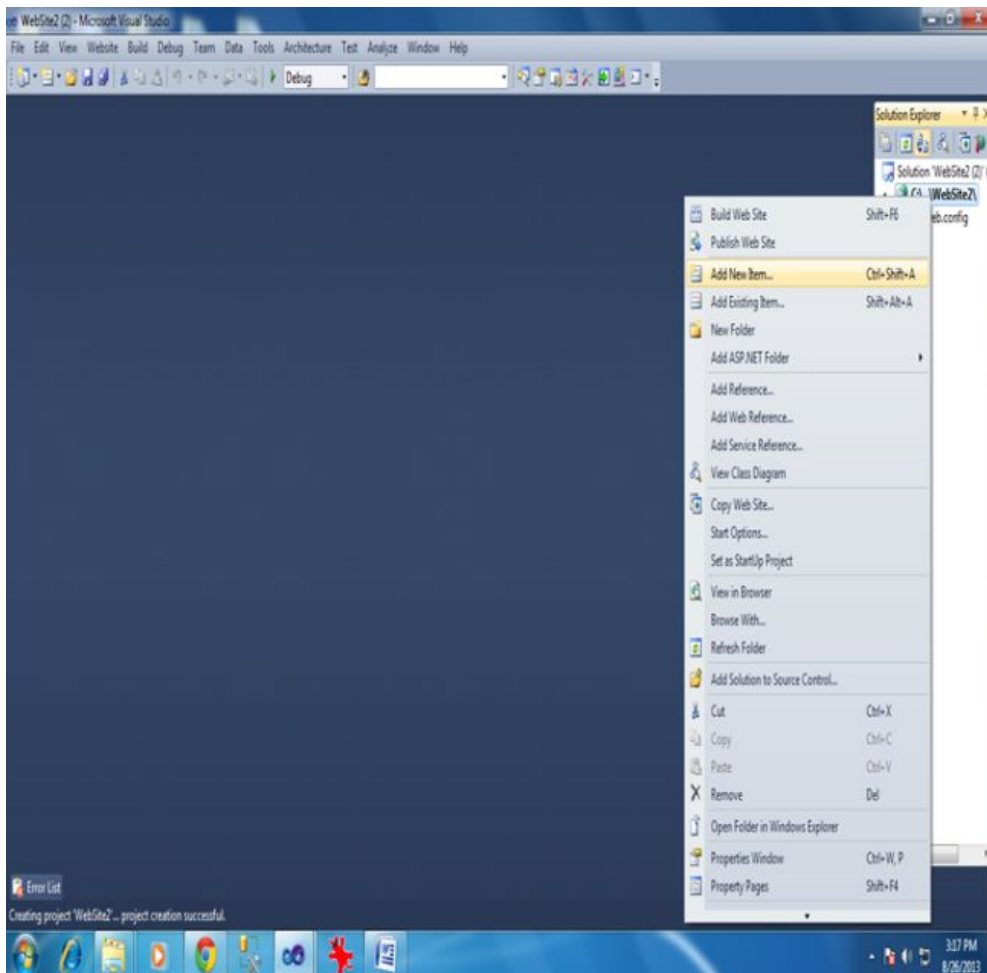
**Open Microsoft Visual Studio 2010 then click on "File" -> "New" -> "Website".**



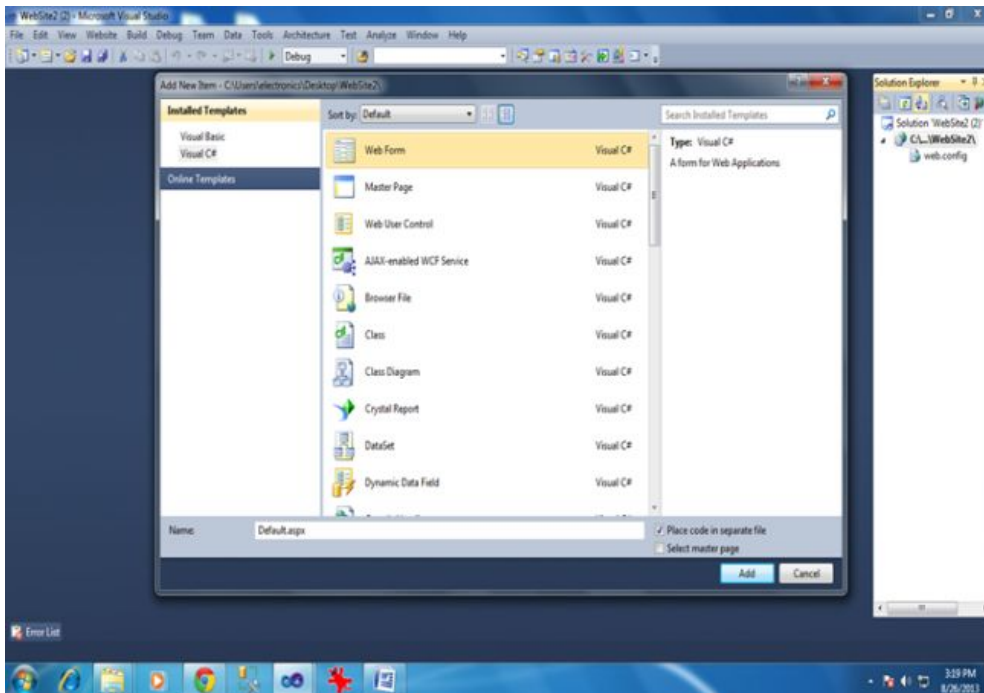
**Then select "ASP.NET Empty Website".**



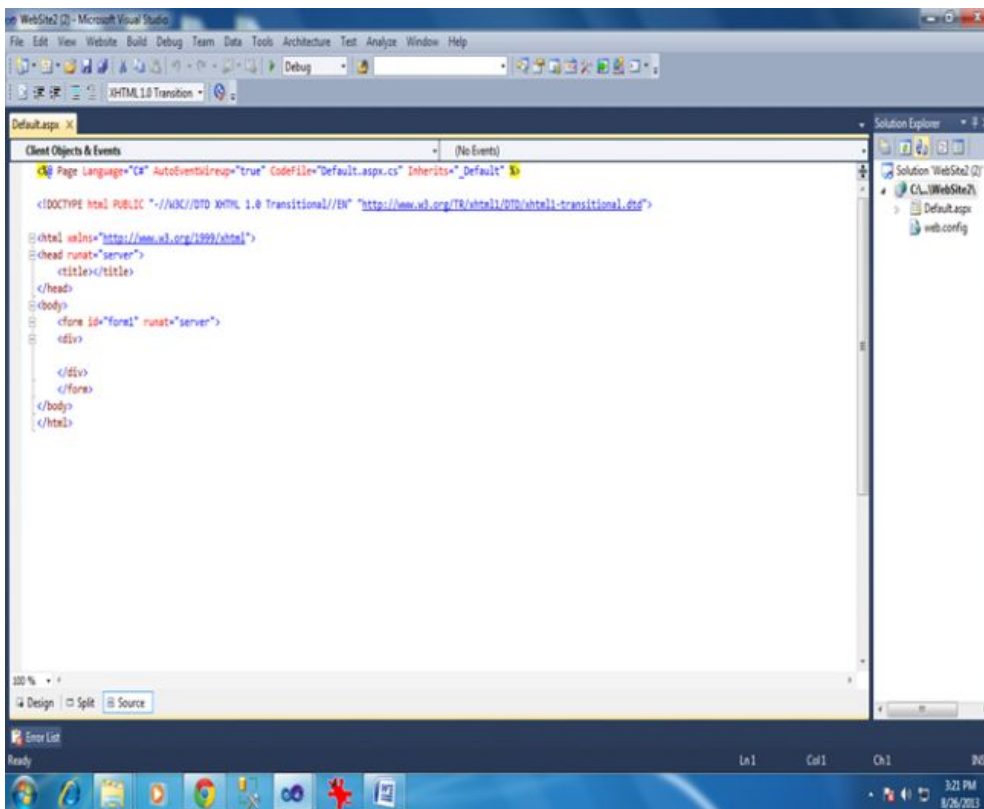
Then "Add New Item":



Then select "Web Form":



And click "Add". Now it will open the page as in the following:



Here we will write our code:.

Process to create calculator

First we need to create a **TextBox** and **16 Buttons** as in the following:

- 10 Buttons for numbers (0-9)
- 5 Buttons to perform operation (addition (+), Subtraction (-) , Multiplication (\*), Division (/) ,Clear (CLR) )
- 1 Buttons for evaluation (=)

Here is the code for the "Default.aspx" page:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
    <title></title>
    <style type="text/css">
        .cal
        {
            position:absolute;
            top:50px;
            left:150px;
            right:400px;
            height:500px;
            bottom:100px;
            background-color:Teal;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div class="cal">
            <asp:Label ID="l" Text=" BASIC CALCULATOR" runat="server" Style="margin-left: 200px"
                Font-Bold="False" Font-Italic="False"></asp:Label>
            <asp:TextBox ID="t" runat="server" Style="margin-left: 100px; margin-top: 24px;"
                Width="335px" Height="41px"></asp:TextBox>
            <asp:Button ID="b1" Text="1" runat="server" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="b1_Click" />
            <asp:Button ID="b2" Text="2" runat="server" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="b2_Click" />
            <asp:Button ID="b3" Text="3" runat="server" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="b3_Click" />
            <asp:Button ID="add" Text="+" runat="server" Height="37px" Style="margin-left: 0px;
                margin-top: 0px;" Width="57px" OnClick="add_Click" />
            <asp:Button ID="b4" Text="4" runat="server" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="b4_Click" />
            <asp:Button ID="b5" Text="5" runat="server" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="b5_Click" />
            <asp:Button ID="b6" Text="6" runat="server" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="b6_Click" />
            <asp:Button ID="sub" Text="-" runat="server" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="sub_Click" />
            <asp:Button ID="b7" Text="7" runat="server" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="b7_Click" />
            <asp:Button ID="b8" Text="8" runat="server" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="b8_Click" />
            <asp:Button ID="b9" Text="9" runat="server" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="b9_Click" />
            <asp:Button ID="mul" Text="*" runat="server" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="mul_Click" />
            <asp:Button ID="b0" runat="server" Text="0" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="b0_Click" />
            <asp:Button ID="clr" runat="server" Text="CLR" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="clr_Click" />
            <asp:Button ID="eq" runat="server" Text="=" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="eq_Click" />
            <asp:Button ID="div" Text="/" runat="server" Height="37px" Style="margin-left: 0px"
                Width="57px" OnClick="div_Click" />
        </div>
    </form>
</body>
</html>
```

```

</div>
</form>
</body>
</html>

```

Here is the code for the "Default.aspx.cs" page (the code for all the buttons) :

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class _Default : System.Web.UI.Page
{
    static float a, c, d;
    static char b;
    protected void Page_Load(object sender, EventArgs e)
    {

    }
    protected void b1_Click(object sender, EventArgs e)
    {
        if ((t.Text == "+" ) || (t.Text == "-" ) || (t.Text == "*" ) || (t.Text == "/" ))
        {
            t.Text = "";
            t.Text = t.Text + b1.Text;
        }
        else
            t.Text = t.Text + b1.Text;
    }
    protected void b2_Click(object sender, EventArgs e)
    {
        if ((t.Text == "+" ) || (t.Text == "-" ) || (t.Text == "*" ) || (t.Text == "/" ))
        {
            t.Text = "";
            t.Text = t.Text + b2.Text;
        }
        else
            t.Text = t.Text + b2.Text;
    }
    protected void b3_Click(object sender, EventArgs e)
    {
        if ((t.Text == "+" ) || (t.Text == "-" ) || (t.Text == "*" ) || (t.Text == "/" ))
        {
            t.Text = "";
            t.Text = t.Text + b3.Text;
        }
        else
            t.Text = t.Text + b3.Text;
    }
    protected void b4_Click(object sender, EventArgs e)
    {
        if ((t.Text == "+" ) || (t.Text == "-" ) || (t.Text == "*" ) || (t.Text == "/" ))
        {
            t.Text = "";
            t.Text = t.Text + b4.Text;
        }
        else
            t.Text = t.Text + b4.Text;
    }
}

```

```
}  
  
protected void b5_Click(object sender, EventArgs e)  
{  
    if ((t.Text == "+" ) || (t.Text == "-" ) || (t.Text == "*" ) || (t.Text == "/" ))  
    {  
        t.Text = "";  
        t.Text = t.Text + b5.Text;  
    }  
    else  
        t.Text = t.Text + b5.Text;  
}  
  
protected void b6_Click(object sender, EventArgs e)  
{  
    if ((t.Text == "+" ) || (t.Text == "-" ) || (t.Text == "*" ) || (t.Text == "/" ))  
    {  
        t.Text = "";  
        t.Text = t.Text + b6.Text;  
    }  
    else  
        t.Text = t.Text + b5.Text;  
}  
  
protected void b7_Click(object sender, EventArgs e)  
{  
    if ((t.Text == "+" ) || (t.Text == "-" ) || (t.Text == "*" ) || (t.Text == "/" ))  
    {  
        t.Text = "";  
        t.Text = t.Text + b7.Text;  
    }  
    else  
        t.Text = t.Text + b7.Text;  
}  
  
protected void b8_Click(object sender, EventArgs e)  
{  
    if ((t.Text == "+" ) || (t.Text == "-" ) || (t.Text == "*" ) || (t.Text == "/" ))  
    {  
        t.Text = "";  
        t.Text = t.Text + b8.Text;  
    }  
    else  
        t.Text = t.Text + b8.Text;  
}  
  
protected void b9_Click(object sender, EventArgs e)  
{  
    if ((t.Text == "+" ) || (t.Text == "-" ) || (t.Text == "*" ) || (t.Text == "/" ))  
    {  
        t.Text = "";  
        t.Text = t.Text + b9.Text;  
    }  
    else  
        t.Text = t.Text + b9.Text;  
}  
  
protected void b0_Click(object sender, EventArgs e)  
{  
    if ((t.Text == "+" ) || (t.Text == "-" ) || (t.Text == "*" ) || (t.Text == "/" ))  
    {  
        t.Text = "";  
        t.Text = t.Text + b0.Text;  
    }  
}
```

```
else
    t.Text = t.Text + b0.Text;
}

protected void add_Click(object sender, EventArgs e)
{
    a = Convert.ToInt32(t.Text);
    t.Text = "";
    b = '+';
    t.Text += b;
}

protected void sub_Click(object sender, EventArgs e)
{
    a = Convert.ToInt32(t.Text);
    t.Text = "";
    b = '-';
    t.Text += b;
}

protected void mul_Click(object sender, EventArgs e)
{
    a = Convert.ToInt32(t.Text);
    t.Text = "";
    b = '*';
    t.Text += b;
}

protected void div_Click(object sender, EventArgs e)
{
    a = Convert.ToInt32(t.Text);
    t.Text = "";
    b = '/';
    t.Text += b;
}

protected void eql_Click(object sender, EventArgs e)
{
    c = Convert.ToInt32(t.Text);
    t.Text = "";
    if (b == '/')
    {
        d = a / c;
        t.Text += d;
        a = d;
    }
    else if (b == '+')
    {
        d = a + c;
        t.Text += d;
        a = d;
    }
    else if (b == '-')
    {
        d = a - c;
        t.Text += d;
        a = d;
    }
    else
    {
        d = a * c;
        t.Text += d;
        a = d;
    }
}
```

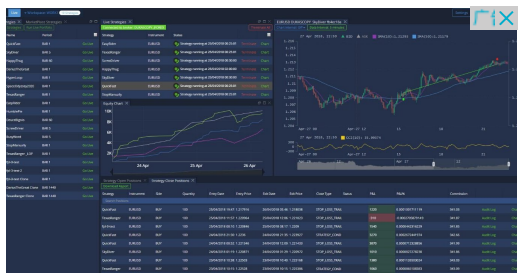
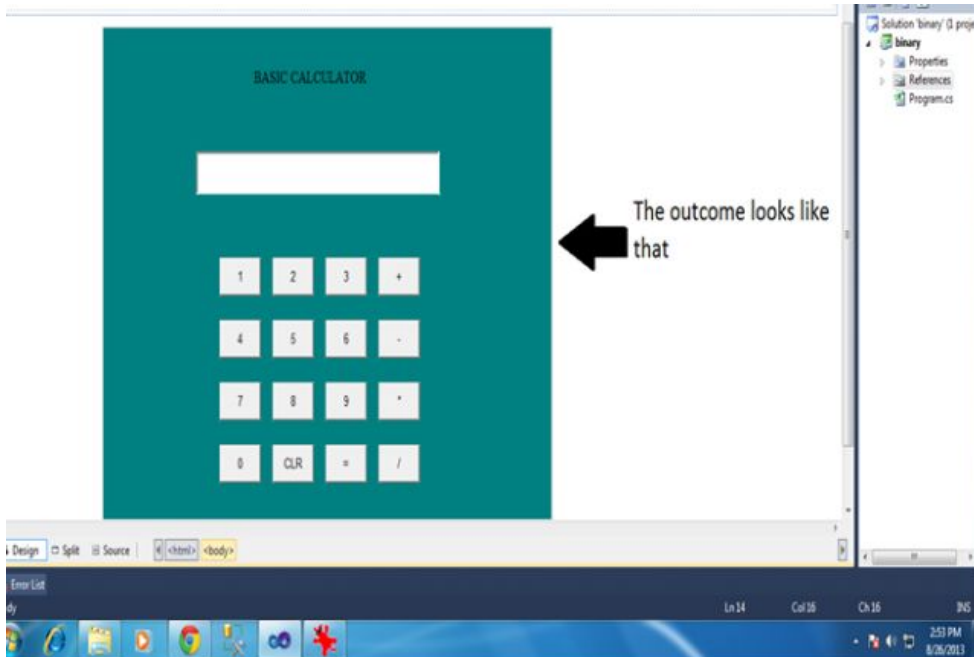
```

    }

    protected void clr_Click(object sender, EventArgs e)
    {
        t.Text = "";
    }
}

```

The final output looks as in the following:



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Priyanka Jain

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