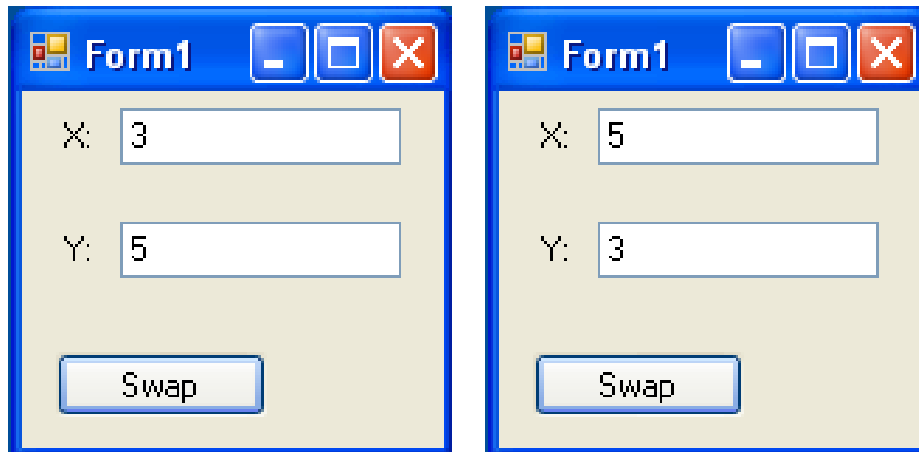


## 2. Pass-by-Reference

The ref key word specifies that a value-type argument should be passed by reference, which enables the called method to modify the original variable.

This keyword is used for variables that already have been initialized.

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```
class MyClass
{
    public static void swap(ref double FirstNumber, ref double SecondNumber)
    {
        double temp =FirstNumber;
        FirstNumber = SecondNumber;
        SecondNumber= temp;
    }
}

private void ButSwap_Click(object sender, EventArgs e)
{
    double x, y;
    x = double.Parse(TxtX.Text);
    y = double.Parse(TxtY.Text);
    MyClass.swap(ref x, ref y);
    TxtX.Text = x.ToString( );
    TxtY.Text = y.ToString( );
}
```