

RE: How to swap two variable later?

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.languages.csharp/2004-10/0291.html>

From: tony lock (*tonylock_at_discussions.microsoft.com*)

Date: 10/01/04

Date: Fri, 1 Oct 2004 02:49:10 -0700

Object variables are pointers, the problem is you cannot manipulate the contents of a string only create a new one. The following wraps the string in a new object which then behaves the way you expect. It is similar to James Curran's solution, but perhaps closer to what you want.

```
namespace Test
{
    class MyClass
    {
        [STAThread]
        static void Main(string[] args)
        {
            StringObj mainA, mainB;
            mainA = new StringObj("A");
            mainB = new StringObj("B");

            Swap swapCommand = new Swap(mainA, mainB);
            Console.WriteLine(mainA.ObjString);// Print "A"
            Console.WriteLine(mainB.ObjString);// Print "B"

            swapCommand.Do(); // Swap take place here...
            Console.WriteLine(mainA.ObjString);//want to Print "B" not A
            Console.WriteLine(mainB.ObjString);//want to print "A" not B
        }
    }
    public class Swap
    {
        StringObj _A;
        StringObj _B;

        public Swap(StringObj a, StringObj b)
        {
            _A = a;
            _B = b;
        }

        public void Do()
```

microsoft.public.dotnet.languages.csharp: RE: How to swap two variable later?

```
{
  string temp;
  temp = _A.ObjString;
  _A.ObjString = _B.ObjString;
  _B.ObjString = temp;
}
}
public class StringObj
{
  string _A;
  public StringObj(string a)
  {
    _A = a;
  }
  public string ObjString
  {
    get{ return _A;}
    set{ _A = value;}
  }
}
}
```

"Jongmin Lee" wrote:

```
> Hi Everybody,
>
> I have very simple code snippet to explain my problem.
>
> Class "Swap" is constructed in "Main" with two initial
> variables.
> Later, "Swap" class is going to swap those two variables.
>
> How to implement this Swap Class?
> Because C# doesn't have pointer, I can't do.
> Please give me any idea....
>
> Thanks,
> Jongmin
>
>
> //
> using System;
> using System.Collections;
>
> namespace Test
> {
> public class MyClass
> {
> public static void Main()
> {
> string mainA, mainB;
```

RE: How to swap two variable later?

```
> mainA = "A";
> mainB = "B";
>
> Swap swapCommand = new Swap(mainA, mainB);
> Console.WriteLine(mainA); // Print "A"
> Console.WriteLine(mainA); // Print "B"
>
> swapCommand.Do(); // Swap take place here...
> Console.WriteLine(mainA); // want to Print "B" not A
> Console.WriteLine(mainA); // want to print "A" not B
> }
> }
>
> public class Swap
> {
>     string _A;
>     string _B;
>
>     public Swap(string a, string b)
>     {
>         _A = a;
>         _B = b;
>     }
>
>     public void Do()
>     {
>         string temp;
>         temp = _A;
>
>         _A = _B;
>         _B = temp;
>     }
> }
> }
```