

Demonstrate a generic method



```
using System;
```

```
class ArrayUtils {
```

```
public static bool copyInsert(T e, int idx, T[] src, T[]  
target) {
```

```
if(target.Length < src.Length+1) return false; for(int i=0,  
j=0; i < src.Length; i++, j++) { if(i == idx) { target[j] = e;  
j++; } target[j] = src[i]; } return true; } } class Test {  
public static void Main() { int[] nums = { 1, 2, 3 }; int[]  
nums2 = new int[4]; Console.Write("Contents of nums: ");  
foreach(int x in nums) Console.Write(x + " ");  
Console.WriteLine(); ArrayUtils.copyInsert(99, 2, nums,  
nums2); Console.Write("Contents of nums2: "); foreach(int x in  
nums2) Console.Write(x + " "); Console.WriteLine(); string[]  
strs = { "Generics", "are", "powerful."}; string[] strs2 = new  
string[4]; Console.Write("Contents of strs: "); foreach(string  
s in strs) Console.Write(s + " "); Console.WriteLine();  
ArrayUtils.copyInsert("in C#", 1, strs, strs2);  
Console.Write("Contents of strs2: "); foreach(string s in  
strs2) Console.Write(s + " "); } } [/csharp]
```