

Index a pointer as if it were an array

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/*
C#: The Complete Reference
by Herbert Schildt

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*/

// Index a pointer as if it were an array.

using System;

public class PtrIndexDemo {
unsafe public static void Main() {
int[] nums = new int[10];

// index pointer
Console.WriteLine("Index pointer like array.");
fixed (int* p = nums) {
for(int i=0; i < 10; i++) p[i] = i; // index pointer like
array for(int i=0; i < 10; i++) Console.WriteLine("p[{0}]: {1}
", i, p[i]); } // use pointer arithmetic Console.WriteLine("
Use pointer arithmetic."); fixed (int* p = nums) { for(int
i=0; i < 10; i++) *(p+i) = i; // use pointer arithmetic
for(int i=0; i < 10; i++) Console.WriteLine("*(p+{0}): {1} ",
i, *(p+i)); } } } [/csharp]
```