

Return an array

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/*
C#: The Complete Reference
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Publisher: Osborne/McGraw-Hill (March 8, 2002)
ISBN: 0072134852
*/

// Return an array.

using System;

class Factor {
/* Return an array containing the factors of num.
On return, numfactors will contain the number of
factors found. */
public int[] findfactors(int num, out int numfactors) {
int[] facts = new int[80]; // size of 80 is arbitrary
int i, j;

// find factors and put them in the facts array
for(i=2, j=0; i < num/2 + 1; i++) if( (num%i)==0 ) { facts[j]
= i; j++; } numfactors = j; return facts; } } public class
FindFactors { public static void Main() { Factor f = new
Factor(); int numfactors; int[] factors; factors =
f.findfactors(1000, out numfactors);
Console.WriteLine("Factors for 1000 are: "); for(int i=0; i <
numfactors; i++) Console.Write(factors[i] + " ");
Console.WriteLine(); } } [/csharp]
```