

C# - PASSING ARRAYS AS FUNCTION ARGUMENTS

http://www.tutorialspoint.com/csharp/csharp_passing_arrays_to_functions.htm

Copyright © tutorialspoint.com

You can pass an array as a function argument in C#. The following example demonstrates this:

```
using System;
namespace ArrayApplication
{
    class MyArray
    {
        double getAverage(int[] arr, int size)
        {
            int i;
            double avg;
            int sum = 0;
            for (i = 0; i < size; ++i)
            {
                sum += arr[i];
            }
            avg = (double)sum / size;
            return avg;
        }

        static void Main(string[] args)
        {
            MyArray app = new MyArray();

            /* an int array with 5 elements */
            int [] balance = new int[]{1000, 2, 3, 17, 50};
            double avg;

            /* pass pointer to the array as an argument */
            avg = app.getAverage(balance, 5 );

            /* output the returned value */
            Console.WriteLine( "Average value is: {0} ", avg );
            Console.ReadKey();
        }
    }
}
```

When the above code is compiled and executed, it produces the following result:

```
Average value is: 214.4
```