

A C# implementation of bubble sort, used to sort an array of numbers.

```
using System;
class BubbleSort
{
    static void Main(string[] args)
    {
        int[] mylist = {16, 2, 9, 8, 32, 1, 10, 14, 3, 7};

        //Display initial values
        Console.WriteLine("Before sort: {0}\n",printArray(mylist));
        //Perform the sort
        int[] sortedList = sort(mylist);
        //Display sorted values
        Console.WriteLine("After sort: {0}",printArray(sortedList));
    }
    public static int[] sort(int[] nlist)
    {
        //A C# implementation of bubble sort
        int i, j, temp;
        for(i = nlist.Length-1; i>=0; i--)
        {
            for (j = 1; j <= i; j++)
            {
                if (nlist[j-1] > nlist[j])
                {
                    temp = nlist[j-1];
                    nlist[j-1] = nlist[j];
                    nlist[j] = temp;
                }
            }
        }
        return nlist;
    }
    public static string printArray(int[] nlist)
    {
        string sortString="";
        for(int cnt=0; cnt<nlist.Length; cnt++) {
            sortString += nlist[cnt]+" ";
        }
        return sortString.TrimEnd();
    }
}
```