```csharp
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;

namespace Algorithms
{
    /// <summary>
    /// page 99
    /// </summary>
    public class Selection_Sort
    {
        public static void Main()
        {
            new Selection_Sort().Run(Console.In, Console.Out);
        }
        public void Run(TextReader reader, TextWriter writer)
        {
            int[] result = SelectionSort(new int[] { 89, 45, 68, 90, 29, 34,
                17 });
            foreach (int i in result) writer.Write(i + ",");
            reader.ReadLine();
        }
        /// <summary>
        /// Sorts a given array by selection sort
        /// </summary>
        /// <param name="A">an array A[0..n-1] or orderable elements</param>
        /// <returns>Array A[0..n-1] sorted in ascending order</returns>
        public int[] SelectionSort(int[] A)
        {
            for (int i = 0; i <= A.Length - 2; i++)
            {
                int min = i;
                for (int j = i + 1; j <= A.Length - 1; j++)
                {
                    if (A[j] < A[min]) min = j;
                    Swap(ref A, i, min);
                }
            }
            return A;
        }
        void Swap(ref int[] A, int index, int min)
        {
            int a = A[index], b = A[min];
            A[index] = b;
            A[min] = a;
        }
    }
}
```