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One Way Swapping Sort

Code Id	44
Date Updated	11/7/2010
Title	One-way swapping sort

Description

The program sorts a series of numbers. The sorting method used is to repetitively
 higher ones to the end, the lowers to
 the beginning until the list is sorted.

Codes Snippet

```
// ***************************************
// Title:     "One-way swapping sort"
//
// Description:
//  The program sorts a series of numbers.
//  The sorting method used is to
//  repetitively swap list items, the
//  higher ones to the end, the lowers to
//  the beginning until the list is sorted.
// ***************************************

#include

void SwapMembers (int items[], int index1, int index2)
{
        int temp;
        temp=items[index1];
        items[index1]=items[index2];
        items[index2]=temp;
}

main ()
{
        int n,m;
    int numbers [] = {102,21,83,42,11,10,9,3,20,27,15,92,2};

        // now a trick to get the number of items in an ARRAY:
        // divide the size of the array by the size of one of its members:
        const int size = sizeof(numbers) / sizeof(numbers[0]);

        // n: specifies the location in the array that has to be adequately set,
        //    starting from the end (the greater)
        // m: each iteration of m stores in position n the greater number found
        //    form position 0 to position n.
        for (n=size-1; n>0; n--)
                for (m=0; m numbers[m+1] )
                                SwapMembers (numbers, m, m+1 );

        // Output the sequence
        for (n=0;n<< numbers[n] << ", ";

        return 0;
}
```

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