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package PostLab;

public class BubbleSortExample {

    public static void main(String args){    --> it should be
String[]

        int[] array = { 7; 3; 11; 4; 20; 12; 98; 78; 45; 36 };
->use ", " instead of ";"

        String output = "Array items in original order\n";

        output += arrElements(array);

        bubbleSort(array);

        output += "\n\nData items in ascending order\n";

        output += arrElements(array[]);    -> remove "[] "

        System.out.println(output);
    }

    public static void bubbleSort( int arr[]){
        for ( char i = 1; i < arr.length; i++ ) {
            for ( long j = 0; j < arr.length - i; j++ ) {    -> it
cannot be long , use "char" or "int"
                if ( arr[ j ] > arr[ j + 1 ] )
                    swap( arr, j, j + 1 );
            }
        }
    }

    public static void swap( int arr, int first, int end ){ -> it
should be an array, that's why it should be arr[]
        int temp;
        temp = arr[ first ];
        arr[ first ] = arr[ end ];
        arr[ end ] = temp;
    }

    public static String arrElements(int arr[]){
        String elements = " ";

        for ( int i = 0; i <= arr.length; i++ )    ->indices start
from 0. That's why, i must be less than array lenght.
            elements += " " + arr[ i ];

        return elements;
    }
}

```