

## Exercise # 10 (5-12-2001)

Finnish program from previous exercise.

### Program:

Write implementation of **insert sort** algorithm for sorting array of integers.  
Read input values from file (kind of program as was on Monday lecture).

Modify sorting function to sort array of doubles.

Modify program to sort array of structures:

```
struct srecord {  
    char fname[50];    // Given name  
    char sname[50];    //Surname  
    int number;        //Student number  
};
```

Sorting parameter is student number.

Unsorted array of structures should be read from file, sorted array should be printed to screen in form:

**name surname student number**

Note: Use maximum size of array 100

### Program 2:

Use previous program to sort array of structures first. Then write function to implement binary sort to find particular member of array (array is sorted via student numbers, so binary search should respect this).