

# Assignment 1 for PG3400

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## Instructions

This assignment is graded as pass/fail. You do not need to make a perfect program to pass, but you need to show reasonable understanding of C programming. A short description of how the program and your thought processes have worked will help us if we are in doubt. Try to avoid memory leaks and buffer overflows.

## Read from file

With this assignment you will find some files with individual names on lines. Write a program that takes a filename as input and reads the names from the file until the end of file. This program should store the names in an array and also the count in a variable. To store variable length names, you can either use an array of pointers or a 2D array with a reasonable maximum length for each name.

Example command line:

`./myprogram human_male.txt`

Execution of this must read all the integers in human\_male.txt

## Sorting

Once the names are read into the memory, you should sort them alphabetically, preferably without copying to a new location. You should already have learned Bubble Sort. After sorting the program should print all the names.

Names are copied from here:

[exploring-infinity.com/wp-content/uploads/2011/02/npc-names-posted.doc](http://exploring-infinity.com/wp-content/uploads/2011/02/npc-names-posted.doc)