

CS201 Programming Problems

For the first five problems, your programs should read a text file from `stdin` and write to `stdout`. In all problems, keep `main` simple, use functions. Save your work in files named `q01.c`, `q02.c`, etc., in a subdirectory of your home directory named `Makeup`.

1. Write a `C` program that counts the number of characters. **Output:** `one integer`.
2. Write a `C` program that counts the number of upper case letters. **Output:** `one integer`.
3. Write a `C` program that counts the number of words that have at least four letters. **Output:** `one integer`.
4. Write a `C` program reads a list of integers and prints their sum. **Output:** `one integer`.
5. Write a `C` program reads a list of integers and prints the smallest integer. **Output:** `one integer`.
6. Write a `C` program that the command line arguments in reverse order, one per line.
7. Write a `C` program that opens a file named as a command line argument and counts the number of characters in the file. **Output:** `one integer`.
8. Write a `C` program that opens two files named as a command line arguments and prints the name of the larger file. In case of ties, print the first file.
9. Write a `C` program that prints the integers from 1 to 100, ten per line. The columns should be aligned and right justified.
10. Write a `C` program that reads a file (named as a command line argument) containing three integers per line. The program should sum the largest number from each line. **Output:** `one integer`.

For example the following input gives a sum of 120.

```
10    20    30
10    40    30
50    20    30
```