

Assignment 3 (5 points)

Write a C program that reads text from `stdin` and prints the longest words in the file to `stdout`. Print each word on a line. A word is defined as any sequence of letters (note: there 52 letters, 26 upper case and 26 lower case).

In case of ties, your program should find all the words of maximum length. If it only finds one, you will still receive some points.

Create a subdirectory of your home directory named `jan29` (note the case). Save your solution in that directory in a file named `p03.c`. Your program is due Friday January 29 at 3:00PM. You will not receive any credit if your program is late, has the wrong filename, or is in the wrong directory. You will receive three points credit only if all of the following are satisfied:

- Your work is in your `jan29` subdirectory.
- Your program is in a file named `p03.c`.
- You avoid the use of magic numbers.
- You write at least one function used by your program (besides `main`).
- Your program produces at least one of the longest words.

If your program satisfies the preceding conditions and finds all the words, you will receive four points.

If your program also dynamically allocates memory for the words, you will receive five points.