

SENG265: Software Development Methods (Spring 2020)

Lab 07 - Dynamic memory in C

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Author: Nirav Galani*

*based on material provided by Prof. Mike Zastre

This week

- Write C code that uses dynamic memory

Intblock_start.c

- Download intblock_start.c
- Complete implementation following the instructions in the file.
- You will need to use dynamic memory
- Remember to free the memory as part of the implementation.

words.txt

- Download words.txt
- Words.txt contains several lines with one word per line.
- Assume that words.txt has at most 1000 lines.

sorty_start.c

- Download sorty_start.c
- Notice MAX_LINES in sorty_start.c
- Note that there is a global char * array declared in sorty_start.c
- Complete the implantation of this file.
- The code should read each line from words.txt and do the following with each line
 - Store it into a char array, using dynamic memory as appropriate for the correct size.
 - A variable of type char that references the first element of this char array is then stored in the global char * array.

sorty_start.c

- Hence, eventually, the global char *array will store reference variables of type char for every single char array of every line in words.txt
- sort this global char * array
- Print the results
- Free all dynamic memory
- You will need to use dynamic memory and getline()

Git

- Remember to place all your work into your course remote repository
- Remember to submit your attendance