

SYNOPSIS

dothings [OPTION] [PARAMS]

DESCRIPTION

dothings does some things:

- p Takes an input file name with text and phone numbers and extracts all the phone numbers then outputs a file containing a list of the phone numbers only, e.g. -p phonenumbers.rtf outputfile.txt
- b Takes an input file name for a binary file, copies and saves a binary file to a new location (Note, should not be implemented with built in functions like copyfile(3) or shutil.copy), e.g.
-b inputfile outputfile
- w Downloads the contents of <https://www.carbonblack.com/contact-us/> and extracts all of the office locations of Carbon Black to a file, e.g. -w outputfile.txt
- u Takes a comma separated list of integers and returns the number of unique ones to the command line, e.g.
-u 1,2,2,3,4,5,4 returns "3" (1, 3, and 5 occur exactly once)
- m Returns the amount of memory (RAM) currently used and available on the system in a table showing GB, rounded to one decimal place:

Used	Unused
3.3GB	4.4GB

- c Takes two file names as input and prints "true" if the contents are identical or "false" if not, e.g. -c fileA fileB

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Your Assignment:

(Please spend **no more than 3 hours** on this assignment)

1. Implement a command line application in C++ (or Python if you are not applying for a position that requires C/C++) that implements **only 2** of the command line options described in the man page above.
2. Implement a suite of test cases that thoroughly exercise the options you chose to implement. (if you want to write the tests first (TDD), feel free)
(Use whatever test framework is most familiar to you. [pytest](#) is a good option if that works for you.)
3. At the end of the 3 hours, please summarize (in a bulleted list, or a paragraph or two) what else you would have done if you had more time.
4. Submit your files and notes to Carbon Black for review.