Advanced Programming
COEN 11

Lab 10

Lab 10

- ❏ Create a directory for this lab
- ❏ Split the code you developed for lab 9 into 3 .c files
  - ➢ main.c, list.c, files.c
- ❏ Create a .h file for the definitions and global variables
  - ➢ Include (#include) the .h file in each .c file
  - ➢ The file containing function main should also declare and initialize the global variables.

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- ❏ Create a makefile to help in the compilation process

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- ❏ Your text file will be encrypted
  - ➢ Encrypting
    - When saving the text file, xor each character with a key before writing it to the file
      - – sprintf, xor loop, fprintf
  - ➢ Decrypting
    - When reading the text file, xor each character read from the file before inserting the data in the list
      - – fgets, xor loop, sscanf

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❑ The same key is used to encrypt and decrypt
  ➢ The key is argv[3]
    • In main, use atoi to convert the string to an int
    • Pass the int key to the save and read functions

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❑ Demo
  ➢ Show the files to the TA
  ➢ Show the TA your makefile and run the command make.
  ➢ Show the TA that your new project-10 executable works.