

CS110 : COMPUTER PROGRAMMING LAB

Module 4 Stage 3

Assessment Problem 11

Given two text files, write a program which interleaves the characters of the two files and stores in a third file, but the interleaving should happen in the following way – the first character from the first file, the last character from the second file, the second character from the first file, the second last character from the second file, and so on. Carefully consider the scenario when one file is larger than the other.

For the sake of simplicity, you can assume that the text file is made up from the letters of the english alphabet and blank spaces. So, there are no newlines, tabs, punctuation marks, etc.

You should take the names of the three files as command line arguments.

To take an example, if the text file `a.txt` contains the following text,

Nob and nobility

and the text file `b.txt` contains the text,

Sense and senility

and if your program is run as,

```
$ ./a.out a.txt b.txt c.txt
```

then the content of the file c.txt should be

```
Nyotbi lainnde sn odbnial ietsyneS
```