

CS 472a – Assignment 2

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Part 1

The following methods are never called, and so all conditions and decisions contained within them are never evaluated:

(Global)

- outOfMem
- isAlDiaNum
- ateof
- upperCaseString
- diactolower
- strcomp

CharCt class (alpha1st.cc)

- Constructors; not default.
- Assignment operator, second operand of type CharCt
- Equality operator, second operand of type CharCt
- Less than operator, second operand of type CharCt
- Greater than operator, second operand of type CharCt
- loadChar
- saveChar
- Input operator, reading a CharCt object from an input stream.
- getCharacter
- setCharacter (overloaded)
- getPercentageUsed

CharCtVector class (alpha1st.cc)

- Copy constructor
- saveVector
- loadVector

Locus class (word.cc)

- Default constructor
- setLoc
- getLocAdd
- setNxt
- getThis

Word class (word.cc)

- Default constructor
- getLen
- getUse
- getPrv
- getLocs
- getTail

Other uncovered conditions or decisions:

In parse() method:

The “countType” parameter is only ever {p, s, l}, and so decision blocks (lines 502-504, 506-508, 511-513), must have at least one true condition.

Part 2 – Functional Test Inconsistencies

Test:	EP1
Problem Type:	Failure
Test case:	Running concordance, giving a non-existent input file
Description:	Program crashes on an assertion failure; expected a clean error message, and graceful exit.
Test:	BVA3
Problem Type:	Failure
Test case:	Running concordance, given a very large starting point (1000000000000) for line numbering.
Description:	Concordance was generated, but with incorrect (in this case negative) line numbers in output; expected an error message.
Test:	ST4
Problem Type:	Failure
Test case:	Giving two sets of options; one indicating line numbering, the other indicating page numbering.
Description:	Crashes attempting to open a file with the name matching the second set of options; similar to EP1; expected a syntax error message and graceful exit.
Test:	ST7
Problem Type:	Failure
Test case:	Running concordance, given a directory name as an input file.
Description:	Crashes attempting to read the directory as a file; expected an error message, and graceful exit.
Test:	ST5
Problem Type:	Undocumented Feature
Test case:	Running concordance, give two inputs and an output file.
Description:	Ignores the first input file, and generates a concordance for the second file, storing output in the given output file.
Test:	Assignment 2 – Part 1
Problem Type:	Failure
Test case:	Specifying line numbering options, but providing no input file.
Description:	Crashes while attempting to open the given options as a file; expected a syntax error message and graceful exit.