Writing Assignment #1

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Introduction:

- Briefly describe the general need in your code for some improvements and indicate what problems were identified in your solution.

Q1: Is there any duplication in the testing code you've written to test individual token regular expressions and the code used by scan?

There is no duplication in the testing code. Nevertheless, if there was redundancy, this would be a problem that needs to be fixed because..

Q2: Does your scan function make calls to makeRegex every time it is called?

Our scan function does not make a call to makeRegex every time scan is called. We avoided the inefficiency by creating an add\_regex function that calls makeRegex instead. The regex is initialized when the scanner is initialized.

Q3: Do you have a redundant array of tokenType values?

We do not have a redundant array of tokenType values because we declared tokenType with typedef (line 49 in scanner.h).

Q4: Would changing the order of nameKwd and exitKwd in the definition of enum tokenEnumType in scanner.h have any adverse effect on the rest of the code?

Yes, changing the order in the enum tokenEnumType would break our code.

Q5: Do you create a named regex\_t pointer for each regex instead of only putting them in an array?

We used a vector instead of an array so that the size could be dynamically allocated.

Q6: Are there any places in which enumerated tokenType values should be used instead of integer literals?

We use enumerated values and not integer literals.

Conclusion:

- Summarize the work you've done and discuss how valuable each fix is.

- the make token function goes through the array through namekwd through not equals through the regex array.

If we reordered them, the loop might reneder through a different point and might skip

19 – variable name error

It’s interoperating keywords as variable neames bevause it’s not matching against them by their normal names.

Give it the total number of regexas (37) and start by zero instead of the names.

Statr from zero and give it the number of regexs.

The order has to not matter.