

CSC 460 Language Translation
Assignment

Write the scanner which will identify the following character sequences and return the associated token:

Sequence	token
begin	BEGIN
end	END
read	READ
write	WRITE
<i>variable</i>	ID
<i>integer</i>	INTLITERAL
(LPAREN
)	RPAREN
;	SEMICOLON
,	COMMA
:=	ASSIGNOP
+	PLUSOP
-	MINUSOP
eof	SCANEOF
<i>lexical error</i>	ERROR

Comments are identified by `--` and everything following the `--` through the end of line will be ignored.

All lines from the input file will be copied to a line buffer which will be written to the listing file with a line number added to the front of the line.

Lexical errors will be identified in the listing file with an explanation.

The total number of lexical errors will be identified at the end of the listing file.

Temp1, which will have the empty Temp2 appended at the end and renamed to the output file, will contain a table of the token buffer, text identified as a token, followed by the numeric token and the token name.

The main function will open the files and continuously call the scanner receiving the token until the SCANEOF token is received.

The main function will use the token buffer, token, and the line buffer to build the Temp1, output, and listing files.

