USER GUIDE LEXICAL ANALYSIS

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Develop

C++, standard libraries

How to run the program

- 1. Download the files
- 2. Run the terminal command line on your computer and write the following: g++ lexical analysis.cpp
- 3. Wait until the compile process is complete and then write the following: lexical analysis.exe (windows) or /a.out (Linux and Mac)

Input

Txt file name

Output

The identification of the valid tokens for this program

Sample Input

Input1.txt

```
Input1.txt
b=7
a = 32.4 *(-8.6 - b)/ 6.1E-8
d = a ^ b // Esto es un comentario
```

Sample Output

TOKEN		TYPE	
b	> Variable		
=	>	Assigment	
7	>	Integer	
а	>	Variable	
=	>	Assigment	
32.4	>	Float	
*	>	Multiplication	
(>	Left parenthesis	
-8.6	>	Float	
-	>	Substraction	
b	>	Variable	
)	>	Right parenthesis	
/	>	Division	
6.1E-8	>	Float	
d	>	Variable	
=	>	Assigment	

Definitions

Transition Table

	A	B	\mathcal{C}	D	E
TXT	В	Ø	Ø	Ø	Ø
Line	Ø	С	Ø	Ø	Ø

Token	Ø	Ø	D	Ø	Ø
Special Symbol	Ø	Ø	Ø	С	Ø
Blank Space	Ø	Ø	Ø	С	Ø
Variable	Ø	Ø	Ø	С	Ø
Float	Ø	Ø	Ø	С	Ø
Integer	Ø	Ø	Ø	С	Ø
Operators	Ø	Ø	Ø	С	Ø
End Line	Ø	Ø	Ø	В	Ø
Comment	Ø	Ø	Ø	В	Ø
End Of File	Ø	Е	Ø	Ø	Ø

Deterministic Finite Automaton

