Aquilano Arthur

DA53 - TP1

Exercice 1 :

1. What is alphabet of the language?

Alphabet {

TABLE ASCII (à justifier car on considère tous les caractères possibles pour les chaines de caractères)

}

1. What are the lexemes (as regular expressions) of the language?
2. Write the table that is matching the lexemes, the tokens, and the attributes of the tokens

|  |  |  |  |
| --- | --- | --- | --- |
| Lexeme (Exemple) | REGEX | Token | |
| Name | Attributes |
| print | (P|p) (R|r) (I|i) (N|n) (T|t) | PRINT |  |
| if | (I|i) (F|f) | IF |  |
| then |  | THEN |  |
| goto |  | GOTO |  |
| gosub |  | GOSUB |  |
| let | (L|l) (E|e) (T|t) | LET |  |
| input |  | INPUT |  |
| return |  | RETURN |  |
| end |  | END |  |
| REM Comment | REM[␣\t\f][^\n\r]\* |  |  |
| myVariable | [\_a-zA-Z][\_a-zA-Z0-9]\* | ID | Pointeur table symboles |
| 123.45 | [0-9]+(\.[0-9]+)? | NUMBER | Valeur numérique |
| + | \+ | PLUS |  |
| - | \- | MINUS |  |
| \* | \\* | MULTIPLY |  |
| / | \/ | DIVIDE |  |
| ( | \( | OPARENT |  |
| ) | \) | CPARENT |  |
| , | \, | COMMA |  |
| <> | =­­|[<>]|[><]|(<=?)|(>=) | REL\_OP | Type d’opérateur (énumération) |
| = | = | EQUAL |  |
| “abcd” | “((\\.)|[^”])\*” | STRING | Valeur chaine |
| ␣ | [␣\t\f]+ |  |  |
|  | [\n\r] | CR |  |