

CSE 422 – Compiler Construction Lab

Lexical Tasks #1 (05.03.2023)

1. Construct a valid token for the language, L that accepts strings of lowercase letters joined with a underscore.

Sample input	Sample output
abcde	Not matched
abcded	Found a match
_xyzer_xyzer_	Found a match
qwerty	Not matched
__animq_amiahdhd__	Found a match

2. Construct a valid token for the language, L that accept strings of one upper case letter must followed by lower case letters.

Sample input	Sample output
Compiler	Found amatch
compiler	Not matched
compiler	Not matched
comPiler	Not matched
COMPiler	Not matched

3. Construct a valid token for the language, L that accept a string that has a 'p' followed by anything, ending in 'q'.

Sample input	Sample output
pcompilerq	Found a match
compiler	Not matched
p1010101p	Not matched
p10101alpabetq	Found a match
plalpha08080q2	Not matched

4. Construct a valid token for the language, L that accepts a string of a valid IP address. Note that a valid IP address has four portions, such as $a.b.c.d$.

Sample input	Sample output
192.136	Not valid IP address
192.168.0	Not valid IP address
192	Not valid IP address
192.168.0.1	IP address
192.168.255.255	IP address

5. Construct a valid token for the language, L that accepts a string is a valid fractional number.

Sample input	Sample output
192.01	Fractional number
1225.	Invalid
.01	Fractional number
1.25	Fractional number
23	Integer number