Gradiance Online Accelerated Learning

Suraj

- Home Page

- Assignments Due

- Progress Report

- Handouts

- Tutorials

- Homeworks

- Lab Projects

- Log Out

Help

Submission number:	94700
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Number of questions:	3
Positive points per question:	3.0
Negative points per question:	1.0
Your score:	9

Questions about strings, tokens, and the Lex language.

1. Here is a simple Lex program:

```
/* regular definitions */
letter  [A-Za-z]
uletter [A-Z]
x       {uletter}⁺{letter}*
y       {letter}{uletter}
z       {letter}*

%%

{x}     {return(1);}
{y}     {return(2);}
{z}     {return(3);}
```

Suppose the input consists of a string of (upper- or lower-case) letters w followed by a nonletter (e.g., a blank). Determine for which values of w the Lex program above will return 1, will return 2, and will return 3. Then, select from the list below, a correct pair (w,i), where the program returns i when the input is w.

  a) (Ab, 3)

  b) (AB, 3)

  c) (aB, 2)

  d) (aB, 1)

Answer submitted: **c)**

You have answered the question correctly.

2. Divide the following C code into tokens:

```
float limitedSquare(x) float x {
    /* returns x-squared, but never more than 100 */
    return(x<=-10.0||x>=10.0)?100:x*x;
}
```

Which of the following is NOT one of the tokens?
  a) never

  b) (

  c))

  d) <=

Answer submitted: **a)**

You have answered the question correctly.

3. What are all the (a) prefixes (b) proper prefixes of the string abacabad?
   Identify one of these from the list below.

   a) abab is a prefix but not a proper prefix.

   b) abad is a prefix but not a proper prefix.

   c) a is a prefix and a proper prefix.

   d) ε is a prefix but not a proper prefix.

   Answer submitted: **c)**

   You have answered the question correctly.