TODAY IS APRIL 22, 2024.

PRODUCTIONS

$ THIS IS A TEST GRAMMAR WHICH MAY BE USED IN SKELETON
$ITERATE
$OUTPUT

1   <PROGRAM>  ::=  <STATEMENT LIST>
2   <STATEMENT LIST>  ::=  <STATEMENT>
3                       |  <STATEMENT LIST> <STATEMENT>
4   <STATEMENT>  ::=  <ASSIGNMENT> ;
5   <ASSIGNMENT>  ::=  <VARIABLE> = <EXPR>
6   <EXPR>  ::=  <ARITH EXPR>
7   <IF CLAUSE> THEN <EXPR> ELSE <EXPR>
8   <IF CLAUSE>  ::=  IF <BOOLEAN>
9   <BOOLEAN>  ::=  TRUE
10    FALSE
11    <EXPR> <RELATION> <EXPR>
12    <IF CLAUSE> THEN <BOOLEAN> ELSE <BOOLEAN>
13   <RELATION>  ::=  =
14    <
15    >
16   <ARITH EXPR>  ::=  <TERM>
17    <ARITH EXPR> + <TERM>
18    <ARITH EXPR> - <TERM>
19   <TERM>  ::=  <PRIMARY>
20    <TERM> * <PRIMARY>
21    <TERM> / <PRIMARY>
22   <PRIMARY>  ::=  <VARIABLE>
23    <NUMBER>
24    ( <EXPR> )
25   <VARIABLE>  ::=  <IDENTIFIER>
26    <VARIABLE> ( <EXPR> )

TIME USED WAS 0.00 SECONDS.
TOTAL TIME IS 0.00 SECONDS.
TERMINAL SYMBOLS

1   ;  19   <EXPR>
2   =  20   <TERM>
3   <  21   <PROGRAM>
4   >
5   +  22   <BOOLEAN>
6   −  23   <PRIMARY>
7   *  24   <VARIABLE>
8   /  25   <RELATION>
9   (  26   <STATEMENT>
10   )  27   <IF CLAUSE>
11   IF  28   <ASSIGNMENT>
12   _|_  29   <ARITH EXPR>
13   THEN  30   <STATEMENT LIST>
14   ELSE
15   TRUE
16   FALSE
17   <NUMBER>
18   <IDENTIFIER>

<PROGRAM> IS THE GOAL SYMBOL.

TIME USED WAS 0.00 SECONDS.
TOTAL TIME IS 0.00 SECONDS.
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TIME USED WAS 0.00 SECONDS.
TOTAL TIME IS 0.00 SECONDS.
SENTENTIAL FORM PRODUCTION:

F11 HAS 321 ELEMENTS.
The maximum depth of recursion was 22 levels.
894 sentential forms were examined.

Time used was 0.02 seconds.
Total time is 0.02 seconds.
C1 MATRIX FOR STACKING DECISION:  PAGE 1 OF 1

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TABLE ENTRIES SUMMARY:

|   |   |   |   |   |
|---|---|---|---|
| 389 | Y |
| 93  | N |
| 11  | # |

TIME USED WAS 0.01 SECONDS.
TOTAL TIME IS 0.03 SECONDS.
C1 TRIPLES FOR STACKING DECISION:

1  N FOR  + <VARIABLE> =
2  N FOR  - <VARIABLE> =
3  N FOR  * <VARIABLE> =
4  N FOR  / <VARIABLE> =
5  Y FOR  ( <EXPR> )
6  Y FOR  IF <EXPR> =
7  Y FOR  IF <EXPR> <
8  Y FOR  IF <EXPR> >
9  N FOR  IF <VARIABLE> =
10  Y FOR  __|__ <VARIABLE> =
11  Y FOR  THEN <EXPR> =
12  Y FOR  THEN <EXPR> <
13  Y FOR  THEN <EXPR> >
14  Y FOR  THEN <EXPR> ELSE
15  Y FOR  THEN <BOOLEAN> ELSE
16  N FOR  THEN <VARIABLE> =

*** ERROR, STACKING DECISION CANNOT BE MADE WITH (2,1) CONTEXT:
17  # FOR  ELSE <EXPR> =

*** ERROR, STACKING DECISION CANNOT BE MADE WITH (2,1) CONTEXT:
18  # FOR  ELSE <EXPR> <

*** ERROR, STACKING DECISION CANNOT BE MADE WITH (2,1) CONTEXT:
19  # FOR  ELSE <EXPR> >
20  N FOR  ELSE <EXPR> )
21  N FOR  ELSE <EXPR> ELSE
22  N FOR  ELSE <BOOLEAN> ELSE
23  N FOR  ELSE <VARIABLE> =
24  N FOR  <EXPR> = ( 
25  N FOR  <EXPR> = IF
26  N FOR  <EXPR> = <NUMBER>
27  N FOR  <EXPR> = <IDENTIFIER>
28  Y FOR  <VARIABLE> = ( 
29  Y FOR  <VARIABLE> = IF
30  Y FOR  <VARIABLE> = <NUMBER>
31  Y FOR  <VARIABLE> = <IDENTIFIER>
32  N FOR  <RELATION> <EXPR> ELSE
33  Y FOR  <STATEMENT LIST> <VARIABLE> =

259 ENTRIES FOR 33 TRIPLES.

TABLE ENTRIES SUMMARY:
15  Y
15  N
3  #

TIME USED WAS 0.01 SECONDS.
TOTAL TIME IS 0.04 SECONDS.

ANALYSIS OF (2,1) CONFLICTS:
THE TRIPLE ELSE <EXPR> = MUST HAVE THE VALUE N FOR

7 <EXPR> ::= <IF CLAUSE> THEN <EXPR> ELSE <EXPR>
IN THE CONTEXT IF ... =
IN THE CONTEXT THEN ... =
IN THE CONTEXT ELSE ... =

THE TRIPLE ELSE <EXPR> = MUST HAVE THE VALUE Y FOR

11 <BOOLEAN> ::= <EXPR> <RELATION> <EXPR>
IN THE CONTEXT ELSE ... THEN
IN THE CONTEXT ELSE ... ELSE

THE TRIPLE ELSE <EXPR> < MUST HAVE THE VALUE N FOR

7 <EXPR> ::= <IF CLAUSE> THEN <EXPR> ELSE <EXPR>
IN THE CONTEXT IF ... <
IN THE CONTEXT THEN ... <
IN THE CONTEXT ELSE ... <

THE TRIPLE ELSE <EXPR> < MUST HAVE THE VALUE Y FOR

11 <BOOLEAN> ::= <EXPR> <RELATION> <EXPR>
IN THE CONTEXT ELSE ... THEN
IN THE CONTEXT ELSE ... ELSE

THE TRIPLE ELSE <EXPR> > MUST HAVE THE VALUE N FOR

7 <EXPR> ::= <IF CLAUSE> THEN <EXPR> ELSE <EXPR>
IN THE CONTEXT IF ... >
IN THE CONTEXT THEN ... >
IN THE CONTEXT ELSE ... >

THE TRIPLE ELSE <EXPR> > MUST HAVE THE VALUE Y FOR

11 <BOOLEAN> ::= <EXPR> <RELATION> <EXPR>
IN THE CONTEXT ELSE ... THEN
IN THE CONTEXT ELSE ... ELSE

TIME USED WAS 0.01 SECONDS.
TOTAL TIME IS 0.05 SECONDS.
CONTEXT CHECK FOR EQUAL AND EMBEDDED RIGHT PARTS:

THERE ARE 100 AND 86 VALID CONTEXTS, RESPECTIVELY, FOR
26  <VARIABLE> ::= <VARIABLE>( <EXPR> )
24  <PRIMARY> ::= ( <EXPR> )
THEY CAN BE RESOLVED BY LENGTH.

THERE ARE 30 AND 30 VALID CONTEXTS, RESPECTIVELY, FOR
17  <ARITH EXPR> ::= <ARITH EXPR> + <TERM>
16  <ARITH EXPR> ::= <TERM>
THEY CAN BE RESOLVED BY LENGTH.

THERE ARE 30 AND 30 VALID CONTEXTS, RESPECTIVELY, FOR
18  <ARITH EXPR> ::= <ARITH EXPR> - <TERM>
16  <ARITH EXPR> ::= <TERM>
THEY CAN BE RESOLVED BY LENGTH.

THERE ARE 64 AND 64 VALID CONTEXTS, RESPECTIVELY, FOR
20  <TERM> ::= <TERM> * <PRIMARY>
19  <TERM> ::= <PRIMARY>
THEY CAN BE RESOLVED BY LENGTH.

THERE ARE 64 AND 64 VALID CONTEXTS, RESPECTIVELY, FOR
21  <TERM> ::= <TERM> / <PRIMARY>
19  <TERM> ::= <PRIMARY>
THEY CAN BE RESOLVED BY LENGTH.

THERE ARE 2 AND 2 VALID CONTEXTS, RESPECTIVELY, FOR
 3  <STATEMENT LIST> ::= <STATEMENT LIST> <STATEMENT>
 2  <STATEMENT LIST> ::= <STATEMENT>
THEY CAN BE RESOLVED BY LENGTH.
C2 PRODUCTION CHOICE FUNCTION:

; AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

4   <STATEMENT> ::= <ASSIGNMENT> ;
     THERE WILL BE NO CONTEXT CHECK.

= AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

13  <RELATION> ::= =
      THERE WILL BE NO CONTEXT CHECK.

< AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

14  <RELATION> ::= <
      THERE WILL BE NO CONTEXT CHECK.

> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

15  <RELATION> ::= >
      THERE WILL BE NO CONTEXT CHECK.

) AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

26  <VARIABLE> ::= <VARIABLE> ( <EXPR> )
     THERE WILL BE NO CONTEXT CHECK.

24  <PRIMARY> ::= ( <EXPR> )
     THERE WILL BE NO CONTEXT CHECK.

TRUE AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

9   <BOOLEAN> ::= TRUE
     THERE WILL BE NO CONTEXT CHECK.

FALSE AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

10  <BOOLEAN> ::= FALSE
     THERE WILL BE NO CONTEXT CHECK.

<NUMBER> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

23  <PRIMARY> ::= <NUMBER>
     THERE WILL BE NO CONTEXT CHECK.

<IDENTIFIER> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:
25 \texttt{<VARIABLE> ::= <IDENTIFIER>}
\textit{THERE WILL BE NO CONTEXT CHECK.}

\texttt{<EXPR> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:}

7 \texttt{<EXPR> ::= <IF CLAUSE> THEN <EXPR> ELSE <EXPR>}
\textit{THERE WILL BE NO CONTEXT CHECK.}

5 \texttt{<ASSIGNMENT> ::= <VARIABLE> = <EXPR>}
\textit{THERE WILL BE NO CONTEXT CHECK.}

11 \texttt{<BOOLEAN> ::= <EXPR> <RELATION> <EXPR>}
\textit{THERE WILL BE NO CONTEXT CHECK.}

\texttt{<TERM> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:}

17 \texttt{<ARITH EXPR> ::= <ARITH EXPR> + <TERM>}
\textit{THERE WILL BE NO CONTEXT CHECK.}

18 \texttt{<ARITH EXPR> ::= <ARITH EXPR> - <TERM>}
\textit{THERE WILL BE NO CONTEXT CHECK.}

16 \texttt{<ARITH EXPR> ::= <TERM>}
\textit{THERE WILL BE NO CONTEXT CHECK.}

\texttt{<BOOLEAN> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:}

12 \texttt{<BOOLEAN> ::= <IF CLAUSE> THEN <BOOLEAN> ELSE <BOOLEAN>}
\textit{THERE WILL BE NO CONTEXT CHECK.}

8 \texttt{<IF CLAUSE> ::= IF <BOOLEAN>}
\textit{THERE WILL BE NO CONTEXT CHECK.}

\texttt{<PRIMARY> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:}

20 \texttt{<TERM> ::= <TERM> * <PRIMARY>}
\textit{THERE WILL BE NO CONTEXT CHECK.}

21 \texttt{<TERM> ::= <TERM> / <PRIMARY>}
\textit{THERE WILL BE NO CONTEXT CHECK.}

19 \texttt{<TERM> ::= <PRIMARY>}
\textit{THERE WILL BE NO CONTEXT CHECK.}

\texttt{<VARIABLE> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:}

22 \texttt{<PRIMARY> ::= <VARIABLE>}
\textit{THERE WILL BE NO CONTEXT CHECK.}

\texttt{<STATEMENT> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:}
<STATEMENT LIST> ::= <STATEMENT LIST> <STATEMENT>
THERE WILL BE NO CONTEXT CHECK.

<STATEMENT LIST> ::= <STATEMENT>
THERE WILL BE NO CONTEXT CHECK.

<ARITH EXPR> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

<EXPR> ::= <ARITH EXPR>
THERE WILL BE NO CONTEXT CHECK.

<STATEMENT LIST> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

<PROGRAM> ::= <STATEMENT LIST>
THERE WILL BE NO CONTEXT CHECK.

ANALYSIS COMPLETE FOR ITERATION 1
*** 3 ERRORS WERE DETECTED.
GRAMMAR MODIFICATION TO ATTEMPT TO RESOLVE CONFLICTS:

27   <ELSE1>  ::=  ELSE
7   <EXPR>  ::=  <IF CLAUSE> THEN <EXPR> <ELSE1> <EXPR>
28   <ELSE2>  ::=  ELSE
12   <BOOLEAN>  ::=  <IF CLAUSE> THEN <BOOLEAN> <ELSE2> <BOOLEAN>

TIME USED WAS 0.00 SECONDS.
TOTAL TIME IS 0.06 SECONDS.
1 ;  
2 =  
3 <  
4 >  
5 +  
6 -  
7 *  
8 /  
9 (   
10 )  
11 IF  
12 ---  
13 THEN  
14 ELSE  
15 TRUE  
16 FALSE  
17 <NUMBER>  
18 <IDENTIFIER>  
19 <EXPR>  
20 <TERM>  
21 <PROGRAM>  
22 <BOOLEAN>  
23 <PRIMARY>  
24 <VARIABLE>  
25 <RELATION>  
26 <STATEMENT>  
27 <IF CLAUSE>  
28 <ASSIGNMENT>  
29 <ARITH EXPR>  
30 <STATEMENT LIST>  
31 <ELSE1>  
32 <ELSE2>  

TIME USED WAS 0.01 SECONDS.  
TOTAL TIME IS 0.07 SECONDS.
SENTENTIAL FORM PRODUCTION:

F11 HAS 362 ELEMENTS.
THE MAXIMUM DEPTH OF RECURSION WAS 23 LEVELS.
1055 SENTENTIAL FORMS WERE EXAMINED.

TIME USED WAS 0.00 SECONDS.
TOTAL TIME IS 0.07 SECONDS.
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### Table Entries Summary:

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TIME USED WAS 0.02 SECONDS.
TOTAL TIME IS 0.09 SECONDS.
C1 TRIPLES FOR STACKING DECISION:

1  N FOR  + <VARIABLE> =
2  N FOR  - <VARIABLE> =
3  N FOR  * <VARIABLE> =
4  N FOR  / <VARIABLE> =
5  Y FOR  ( <EXPR> )
6  Y FOR  IF <EXPR> =
7  Y FOR  IF <EXPR> <
8  Y FOR  IF <EXPR> >
9  N FOR  IF <VARIABLE> =
10 Y FOR  _|_ <VARIABLE> =
11 Y FOR  THEN <EXPR> =
12 Y FOR  THEN <EXPR> <
13 Y FOR  THEN <EXPR> >
14 Y FOR  THEN <EXPR> ELSE
15 Y FOR  THEN <BOOLEAN> ELSE
16 N FOR  THEN <VARIABLE> =
17 N FOR  <EXPR> = (,
18 N FOR  <EXPR> = IF
19 N FOR  <EXPR> = <NUMBER>
20 N FOR  <EXPR> = <IDENTIFIER>
21 Y FOR  <VARIABLE> = (,
22 Y FOR  <VARIABLE> = IF
23 Y FOR  <VARIABLE> = <NUMBER>
24 Y FOR  <VARIABLE> = <IDENTIFIER>
25 N FOR  <RELATION> <EXPR> ELSE
26 Y FOR  <STATEMENT LIST> <VARIABLE> =
27 N FOR  <ELSE1> <EXPR> =
28 N FOR  <ELSE1> <EXPR> <
29 N FOR  <ELSE1> <EXPR> >
30 N FOR  <ELSE1> <EXPR> )
31 N FOR  <ELSE1> <EXPR> ELSE
32 N FOR  <ELSE1> <VARIABLE> =
33 Y FOR  <ELSE2> <EXPR> =
34 Y FOR  <ELSE2> <EXPR> <
35 Y FOR  <ELSE2> <EXPR> >
36 N FOR  <ELSE2> <BOOLEAN> ELSE
37 N FOR  <ELSE2> <VARIABLE> =

281 ENTRIES FOR 37 TRIPLES.

TABLE ENTRIES SUMMARY:

18 Y
19 N
0 #

TIME USED WAS 0.01 SECONDS.
TOTAL TIME IS 0.10 SECONDS.
CONTEXT CHECK FOR EQUAL AND EMBEDDED RIGHT PARTS:

THERE ARE 108 AND 93 VALID CONTEXTS, RESPECTIVELY, FOR
26  `<VARIABLE>` ::= `<VARIABLE>` ( `<EXPR>` )
24  `<PRIMARY>` ::= ( `<EXPR>` )
THEY CAN BE RESOLVED BY LENGTH.

THERE ARE 4 AND 6 VALID CONTEXTS, RESPECTIVELY, FOR
27  `<ELSE1>` ::= ELSE
28  `<ELSE2>` ::= ELSE
THEY CAN BE RESOLVED BY (1,0) CONTEXT.

THERE ARE 35 AND 35 VALID CONTEXTS, RESPECTIVELY, FOR
17  `<ARITH EXPR>` ::= `<ARITH EXPR>` + `<TERM>`
16  `<ARITH EXPR>` ::= `<TERM>`
THEY CAN BE RESOLVED BY LENGTH.

THERE ARE 35 AND 35 VALID CONTEXTS, RESPECTIVELY, FOR
18  `<ARITH EXPR>` ::= `<ARITH EXPR>` - `<TERM>`
16  `<ARITH EXPR>` ::= `<TERM>`
THEY CAN BE RESOLVED BY LENGTH.

THERE ARE 71 AND 71 VALID CONTEXTS, RESPECTIVELY, FOR
20  `<TERM>` ::= `<TERM>` * `<PRIMARY>`
19  `<TERM>` ::= `<PRIMARY>`
THEY CAN BE RESOLVED BY LENGTH.

THERE ARE 71 AND 71 VALID CONTEXTS, RESPECTIVELY, FOR
21  `<TERM>` ::= `<TERM>` / `<PRIMARY>`
19  `<TERM>` ::= `<PRIMARY>`
THEY CAN BE RESOLVED BY LENGTH.

THERE ARE 2 AND 2 VALID CONTEXTS, RESPECTIVELY, FOR
3   `<STATEMENT LIST>` ::= `<STATEMENT LIST>` `<STATEMENT>`
2   `<STATEMENT LIST>` ::= `<STATEMENT>`
THEY CAN BE RESOLVED BY LENGTH.
C2 PRODUCTION CHOICE FUNCTION:

; AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

4  <STATEMENT> ::= <ASSIGNMENT> ;
    THERE WILL BE NO CONTEXT CHECK.

= AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

13  <RELATION> ::= =
    THERE WILL BE NO CONTEXT CHECK.

< AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

14  <RELATION> ::= <
    THERE WILL BE NO CONTEXT CHECK.

> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

15  <RELATION> ::= >
    THERE WILL BE NO CONTEXT CHECK.

) AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

26  <VARIABLE> ::= <VARIABLE> ( <EXPR> )
    THERE WILL BE NO CONTEXT CHECK.

24  <PRIMARY> ::= ( <EXPR> )
    THERE WILL BE NO CONTEXT CHECK.

ELSE AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

27  <ELSE1> ::= ELSE
    (0,1) CONTEXT WILL BE CHECKED. LEGAL RIGHT CONTEXT:
    ... ( ...
    ... IF ...
    ... <NUMBER>
    ... <IDENTIFIER>

28  <ELSE2> ::= ELSE
    THERE WILL BE NO CONTEXT CHECK.

TRUE AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

9  <BOOLEAN> ::= TRUE
    THERE WILL BE NO CONTEXT CHECK.

FALSE AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:
10  <BOOLEAN> ::= FALSE
    THERE WILL BE NO CONTEXT CHECK.

<NUMBER> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

23  <PRIMARY> ::= <NUMBER>
    THERE WILL BE NO CONTEXT CHECK.

<IDENTIFIER> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

25  <VARIABLE> ::= <IDENTIFIER>
    THERE WILL BE NO CONTEXT CHECK.

<EXPR> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

7   <EXPR> ::= <IF CLAUSE> THEN <EXPR> <ELSE1> <EXPR>
    THERE WILL BE NO CONTEXT CHECK.

5   <ASSIGNMENT> ::= <VARIABLE> = <EXPR>
    THERE WILL BE NO CONTEXT CHECK.

11  <BOOLEAN> ::= <EXPR> <RELATION> <EXPR>
    THERE WILL BE NO CONTEXT CHECK.

<TERM> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

17  <ARITH EXPR> ::= <ARITH EXPR> + <TERM>
    THERE WILL BE NO CONTEXT CHECK.

18  <ARITH EXPR> ::= <ARITH EXPR> - <TERM>
    THERE WILL BE NO CONTEXT CHECK.

16  <ARITH EXPR> ::= <TERM>
    THERE WILL BE NO CONTEXT CHECK.

<BOOLEAN> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

12  <BOOLEAN> ::= <IF CLAUSE> THEN <BOOLEAN> <ELSE2> <BOOLEAN>
    THERE WILL BE NO CONTEXT CHECK.

8   <IF CLAUSE> ::= IF <BOOLEAN>
    THERE WILL BE NO CONTEXT CHECK.

<PRIMARIY> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

20  <TERM> ::= <TERM> * <PRIMARIY>
    THERE WILL BE NO CONTEXT CHECK.

21  <TERM> ::= <TERM> / <PRIMARIY>
    THERE WILL BE NO CONTEXT CHECK.
19  
<TERM> ::= <PRIMARY>
THERE WILL BE NO CONTEXT CHECK.

<VARIABLE> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

22  
<PRIMARY> ::= <VARIABLE>
THERE WILL BE NO CONTEXT CHECK.

<STATEMENT> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

3  
<STATEMENT LIST> ::= <STATEMENT LIST> <STATEMENT>
THERE WILL BE NO CONTEXT CHECK.

2  
<STATEMENT LIST> ::= <STATEMENT>
THERE WILL BE NO CONTEXT CHECK.

<ARITH EXPR> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

6  
<EXPR> ::= <ARITH EXPR>
THERE WILL BE NO CONTEXT CHECK.

<STATEMENT LIST> AS STACK TOP WILL CAUSE PRODUCTIONS TO BE CHECKED IN THIS ORDER:

1  
<PROGRAM> ::= <STATEMENT LIST>
THERE WILL BE NO CONTEXT CHECK.

TIME USED WAS 0.01 SECONDS.
TOTAL TIME IS 0.11 SECONDS.

ANALYSIS COMPLETE FOR ITERATION 2
NO ERRORS WERE DETECTED.
DECLARE NSY LITERALLY '32', NT LITERALLY '18';
DECLARE V_INDEX(12) BIT(8) INITIAL ( 1, 11, 12, 13, 16, 17, 17, 18, 18, 18, 18, 19);
DECLARE C1TRIPLES LITERALLY '17';
DECLARE C1TRIPLES(NC1TRIPLES) FIXED INITIAL ( 594698, 725762, 725763, 725764, 792578, 856834, 856835, 856836, 856846, 857614, 1573385, 1573387, 1573393, 1573394, 1972226, 2102018, 2102019, 2102020);
DECLARE PRDTB(28) FIXED INITIAL ( 0, 28, 0, 0, 0, 1575187, 2323, 0, 0, 0, 0, 0, 453844264, 11, 5127, 5128, 0, 0, 30, 0, 0, 0);
DECLARE PRDTB(28) BIT(8) INITIAL ( 0, 4, 13, 14, 15, 26, 24, 0, 0, 9, 10, 23, 25, 7, 5, 11, 17, 18, 16, 12, 8, 20, 21, 19, 22, 3, 2, 6, 1);
DECLARE HDTB(28) FIXED INITIAL ( 0, 28, 0, 0, 0, 1575187, 2323, 0, 0, 0, 0, 0, 453844264, 11, 5127, 5128, 0, 0, 30, 0, 0, 0);
DECLARE HDTB(28) BIT(8) INITIAL ( 0, 28, 0, 0, 0, 1575187, 2323, 0, 0, 0, 0, 0, 453844264, 11, 5127, 5128, 0, 0, 30, 0, 0, 0);
DECLARE PRLENGTH(28) BIT(8) INITIAL ( 0, 2, 1, 1, 1, 4, 3, 1, 1, 1, 1, 1, 1, 5, 3, 3, 3, 1, 5, 2, 3, 3, 1, 1, 2, 1, 1, 1);
--- CARD OUTPUT ---
DECLARE CONTEXT_CASE(28) BIT(8) INITIAL (0, 0, 0, 0, 0, 0, 0, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0);
--- CARD OUTPUT ---
DECLARE LEFT_CONTEXT(0) BIT(8) INITIAL (19);
--- CARD OUTPUT ---
DECLARE LEFT_INDEX(14) BIT(8) INITIAL (0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0);
--- CARD OUTPUT ---
DECLARE PR_INDEX(32) BIT(8) INITIAL (1, 2, 3, 4, 5, 5, 5, 5, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7);

TIME USED WAS 0.00 SECONDS.
TOTAL TIME IS 0.11 SECONDS.