

LR1分析表

| 状态 | ACTION | | | | | | | | GOTO | |
|----|----------|------------------|------------------|------------------|------------------|----------|------------------|------------------|------|----|
| | n | + | - | * | / | (|) | \$ | E | T |
| 0 | shift 4 | | | | | shift 5 | | | 1 | 2 |
| 1 | | shift 6 | shift 7 | | | | | accept | | |
| 2 | | reduce E → T | reduce E → T | shift 8 | shift 9 | | | reduce E → T | | |
| 3 | | reduce T → F | reduce T → F | reduce T → F | reduce T → F | | | reduce T → F | | |
| 4 | | reduce F → n | reduce F → n | reduce F → n | reduce F → n | | | reduce F → n | | |
| 5 | shift 13 | | | | | shift 14 | | | 10 | 11 |
| 6 | shift 4 | | | | | shift 5 | | | | 15 |
| 7 | shift 4 | | | | | shift 5 | | | | 16 |
| 8 | shift 4 | | | | | shift 5 | | | | |
| 9 | shift 4 | | | | | shift 5 | | | | |
| 10 | | shift 19 | shift 20 | | | | shift 21 | | | |
| 11 | | reduce E → T | reduce E → T | shift 22 | shift 23 | | reduce E → T | | | |
| 12 | | reduce T → F | reduce T → F | reduce T → F | reduce T → F | | reduce T → F | | | |
| 13 | | reduce F → n | reduce F → n | reduce F → n | reduce F → n | | reduce F → n | | | |
| 14 | shift 13 | | | | | shift 14 | | | 24 | 11 |
| 15 | | reduce E → E + T | reduce E → E + T | shift 8 | shift 9 | | | reduce E → E + T | | |
| 16 | | reduce E → E - T | reduce E → E - T | shift 8 | shift 9 | | | reduce E → E - T | | |
| 17 | | reduce T → T * F | reduce T → T * F | reduce T → T * F | reduce T → T * F | | | reduce T → T * F | | |
| 18 | | reduce T → T / F | reduce T → T / F | reduce T → T / F | reduce T → T / F | | | reduce T → T / F | | |
| 19 | shift 13 | | | | | shift 14 | | | | 25 |
| 20 | shift 13 | | | | | shift 14 | | | | 26 |
| 21 | | reduce F → (E) | reduce F → (E) | reduce F → (E) | reduce F → (E) | | | reduce F → (E) | | |
| 22 | shift 13 | | | | | shift 14 | | | | |
| 23 | shift 13 | | | | | shift 14 | | | | |
| 24 | | shift 19 | shift 20 | | | | shift 29 | | | |
| 25 | | reduce E → E + T | reduce E → E + T | shift 22 | shift 23 | | reduce E → E + T | | | |
| 26 | | reduce E → E - T | reduce E → E - T | shift 22 | shift 23 | | reduce E → E - T | | | |
| 27 | | reduce T → T * F | reduce T → T * F | reduce T → T * F | reduce T → T * F | | reduce T → T * F | | | |
| 28 | | reduce T → T / F | reduce T → T / F | reduce T → T / F | reduce T → T / F | | reduce T → T / F | | | |
| 29 | | reduce F → (E) | reduce F → (E) | reduce F → (E) | reduce F → (E) | | reduce F → (E) | | | |

项目集规范族:

I0:

A → . E , \$
 E → . E + T , \$
 E → . E - T , \$
 E → . T , \$
 E → . E + T , +
 E → . E - T , +
 E → . T , +
 E → . E + T , -
 E → . E - T , -
 E → . T , -
 T → . T * F , \$
 T → . T / F , \$
 T → . F , \$
 T → . T * F , +
 T → . T / F , +
 T → . F , +
 T → . T * F , -
 T → . T / F , -
 T → . F , -
 T → . T * F , *
 T → . T / F , *
 T → . F , *
 T → . T * F , /
 T → . T / F , /
 T → . F , /
 F → . (E) , \$
 F → . n , \$
 F → . (E) , +
 F → . n , +
 F → . (E) , -
 F → . n , -
 F → . (E) , *
 F → . n , *
 F → . (E) , /
 F → . n , /

I1:

A → E . , \$
 E → E . + T , \$

```

E → E . - T , $
E → E . + T , +
E → E . - T , +
E → E . + T , -
E → E . - T , -

```

I2:

```

E → T . , $
E → T . , +
E → T . , -
T → T . * F , $
T → T . / F , $
T → T . * F , +
T → T . / F , +
T → T . * F , -
T → T . / F , -
T → T . * F , *
T → T . / F , *
T → T . * F , /
T → T . / F , /

```

I3:

```

T → F . , $
T → F . , +
T → F . , -
T → F . , *
T → F . , /

```

I4:

```

F → n . , $
F → n . , +
F → n . , -
F → n . , *
F → n . , /

```

I5:

```

F → ( . E ) , $
F → ( . E ) , +
F → ( . E ) , -
F → ( . E ) , *
F → ( . E ) , /
E → . E + T , )
E → . E - T , )
E → . T , )
E → . E + T , +
E → . E - T , +
E → . T , +
E → . E + T , -
E → . E - T , -
E → . T , -
T → . T * F , )
T → . T / F , )
T → . F , )
T → . T * F , +
T → . T / F , +
T → . F , +
T → . T * F , -
T → . T / F , -
T → . F , -
T → . T * F , *
T → . T / F , *
T → . F , *
T → . T * F , /
T → . T / F , /
T → . F , /
F → . ( E ) , )
F → . n , )
F → . ( E ) , +
F → . n , +
F → . ( E ) , -
F → . n , -
F → . ( E ) , *
F → . n , *
F → . ( E ) , /
F → . n , /

```

I6:

```

E → E + . T , $
E → E + . T , +
E → E + . T , -
T → . T * F , $
T → . T / F , $
T → . F , $
T → . T * F , +
T → . T / F , +
T → . F , +
T → . T * F , -
T → . T / F , -
T → . F , -

```

```

T → . T * F , *
T → . T / F , *
T → . F , *
T → . T * F , /
T → . T / F , /
T → . F , /
F → . ( E ) , $
F → . n , $
F → . ( E ) , +
F → . n , +
F → . ( E ) , -
F → . n , -
F → . ( E ) , *
F → . n , *
F → . ( E ) , /
F → . n , /

```

I7:

```

E → E - . T , $
E → E - . T , +
E → E - . T , -
T → . T * F , $
T → . T / F , $
T → . F , $
T → . T * F , +
T → . T / F , +
T → . F , +
T → . T * F , -
T → . T / F , -
T → . F , -
T → . T * F , *
T → . T / F , *
T → . F , *
T → . T * F , /
T → . T / F , /
T → . F , /
F → . ( E ) , $
F → . n , $
F → . ( E ) , +
F → . n , +
F → . ( E ) , -
F → . n , -
F → . ( E ) , *
F → . n , *
F → . ( E ) , /
F → . n , /

```

I8:

```

T → T * . F , $
T → T * . F , +
T → T * . F , -
T → T * . F , *
T → T * . F , /
F → . ( E ) , $
F → . n , $
F → . ( E ) , +
F → . n , +
F → . ( E ) , -
F → . n , -
F → . ( E ) , *
F → . n , *
F → . ( E ) , /
F → . n , /

```

I9:

```

T → T / . F , $
T → T / . F , +
T → T / . F , -
T → T / . F , *
T → T / . F , /
F → . ( E ) , $
F → . n , $
F → . ( E ) , +
F → . n , +
F → . ( E ) , -
F → . n , -
F → . ( E ) , *
F → . n , *
F → . ( E ) , /
F → . n , /

```

I10:

```

F → ( E . ) , $
F → ( E . ) , +
F → ( E . ) , -
F → ( E . ) , *
F → ( E . ) , /
E → E . + T , )
E → E . - T , )

```

$E \rightarrow E . + T , +$
 $E \rightarrow E . - T , +$
 $E \rightarrow E . + T , -$
 $E \rightarrow E . - T , -$

I11:
 $E \rightarrow T . ,)$
 $E \rightarrow T . , +$
 $E \rightarrow T . , -$
 $T \rightarrow T . * F ,)$
 $T \rightarrow T . / F ,)$
 $T \rightarrow T . * F , +$
 $T \rightarrow T . / F , +$
 $T \rightarrow T . * F , -$
 $T \rightarrow T . / F , -$
 $T \rightarrow T . * F , *$
 $T \rightarrow T . / F , *$
 $T \rightarrow T . * F , /$
 $T \rightarrow T . / F , /$

I12:
 $T \rightarrow F . ,)$
 $T \rightarrow F . , +$
 $T \rightarrow F . , -$
 $T \rightarrow F . , *$
 $T \rightarrow F . , /$

I13:
 $F \rightarrow n . ,)$
 $F \rightarrow n . , +$
 $F \rightarrow n . , -$
 $F \rightarrow n . , *$
 $F \rightarrow n . , /$

I14:
 $F \rightarrow (. E) ,)$
 $F \rightarrow (. E) , +$
 $F \rightarrow (. E) , -$
 $F \rightarrow (. E) , *$
 $F \rightarrow (. E) , /$
 $E \rightarrow . E + T ,)$
 $E \rightarrow . E - T ,)$
 $E \rightarrow . T ,)$
 $E \rightarrow . E + T , +$
 $E \rightarrow . E - T , +$
 $E \rightarrow . T , +$
 $E \rightarrow . E + T , -$
 $E \rightarrow . E - T , -$
 $E \rightarrow . T , -$
 $T \rightarrow . T * F ,)$
 $T \rightarrow . T / F ,)$
 $T \rightarrow . F ,)$
 $T \rightarrow . T * F , +$
 $T \rightarrow . T / F , +$
 $T \rightarrow . F , +$
 $T \rightarrow . T * F , -$
 $T \rightarrow . T / F , -$
 $T \rightarrow . F , -$
 $T \rightarrow . T * F , *$
 $T \rightarrow . T / F , *$
 $T \rightarrow . F , *$
 $T \rightarrow . T * F , /$
 $T \rightarrow . T / F , /$
 $T \rightarrow . F , /$
 $F \rightarrow . (E) ,)$
 $F \rightarrow . n ,)$
 $F \rightarrow . (E) , +$
 $F \rightarrow . n , +$
 $F \rightarrow . (E) , -$
 $F \rightarrow . n , -$
 $F \rightarrow . (E) , *$
 $F \rightarrow . n , *$
 $F \rightarrow . (E) , /$
 $F \rightarrow . n , /$

I15:
 $E \rightarrow E + T . , \$$
 $E \rightarrow E + T . , +$
 $E \rightarrow E + T . , -$
 $T \rightarrow T . * F , \$$
 $T \rightarrow T . / F , \$$
 $T \rightarrow T . * F , +$
 $T \rightarrow T . / F , +$
 $T \rightarrow T . * F , -$
 $T \rightarrow T . / F , -$
 $T \rightarrow T . * F , *$
 $T \rightarrow T . / F , *$
 $T \rightarrow T . * F , /$
 $T \rightarrow T . / F , /$

I16:

```

E → E - T . , $
E → E - T . , +
E → E - T . , -
T → T . * F , $
T → T . / F , $
T → T . * F , +
T → T . / F , +
T → T . * F , -
T → T . / F , -
T → T . * F , *
T → T . / F , *
T → T . * F , /
T → T . / F , /

```

I17:

```

T → T * F . , $
T → T * F . , +
T → T * F . , -
T → T * F . , *
T → T * F . , /

```

I18:

```

T → T / F . , $
T → T / F . , +
T → T / F . , -
T → T / F . , *
T → T / F . , /

```

I19:

```

E → E + . T , )
E → E + . T , +
E → E + . T , -
T → . T * F , )
T → . T / F , )
T → . F , )
T → . T * F , +
T → . T / F , +
T → . F , +
T → . T * F , -
T → . T / F , -
T → . F , -
T → . T * F , *
T → . T / F , *
T → . F , *
T → . T * F , /
T → . T / F , /
T → . F , /
F → . ( E ) , )
F → . n , )
F → . ( E ) , +
F → . n , +
F → . ( E ) , -
F → . n , -
F → . ( E ) , *
F → . n , *
F → . ( E ) , /
F → . n , /

```

I20:

```

E → E - . T , )
E → E - . T , +
E → E - . T , -
T → . T * F , )
T → . T / F , )
T → . F , )
T → . T * F , +
T → . T / F , +
T → . F , +
T → . T * F , -
T → . T / F , -
T → . F , -
T → . T * F , *
T → . T / F , *
T → . F , *
T → . T * F , /
T → . T / F , /
T → . F , /
F → . ( E ) , )
F → . n , )
F → . ( E ) , +
F → . n , +
F → . ( E ) , -
F → . n , -
F → . ( E ) , *
F → . n , *
F → . ( E ) , /
F → . n , /

```

I21:

$F \rightarrow (E) . , \$$
 $F \rightarrow (E) . , +$
 $F \rightarrow (E) . , -$
 $F \rightarrow (E) . , *$
 $F \rightarrow (E) . , /$

I22:

$T \rightarrow T * . F ,)$
 $T \rightarrow T * . F , +$
 $T \rightarrow T * . F , -$
 $T \rightarrow T * . F , *$
 $T \rightarrow T * . F , /$
 $F \rightarrow . (E) ,)$
 $F \rightarrow . n ,)$
 $F \rightarrow . (E) , +$
 $F \rightarrow . n , +$
 $F \rightarrow . (E) , -$
 $F \rightarrow . n , -$
 $F \rightarrow . (E) , *$
 $F \rightarrow . n , *$
 $F \rightarrow . (E) , /$
 $F \rightarrow . n , /$

I23:

$T \rightarrow T / . F ,)$
 $T \rightarrow T / . F , +$
 $T \rightarrow T / . F , -$
 $T \rightarrow T / . F , *$
 $T \rightarrow T / . F , /$
 $F \rightarrow . (E) ,)$
 $F \rightarrow . n ,)$
 $F \rightarrow . (E) , +$
 $F \rightarrow . n , +$
 $F \rightarrow . (E) , -$
 $F \rightarrow . n , -$
 $F \rightarrow . (E) , *$
 $F \rightarrow . n , *$
 $F \rightarrow . (E) , /$
 $F \rightarrow . n , /$

I24:

$F \rightarrow (E .) ,)$
 $F \rightarrow (E .) , +$
 $F \rightarrow (E .) , -$
 $F \rightarrow (E .) , *$
 $F \rightarrow (E .) , /$
 $E \rightarrow E . + T ,)$
 $E \rightarrow E . - T ,)$
 $E \rightarrow E . + T , +$
 $E \rightarrow E . - T , +$
 $E \rightarrow E . + T , -$
 $E \rightarrow E . - T , -$

I25:

$E \rightarrow E + T . ,)$
 $E \rightarrow E + T . , +$
 $E \rightarrow E + T . , -$
 $T \rightarrow T . * F ,)$
 $T \rightarrow T . / F ,)$
 $T \rightarrow T . * F , +$
 $T \rightarrow T . / F , +$
 $T \rightarrow T . * F , -$
 $T \rightarrow T . / F , -$
 $T \rightarrow T . * F , *$
 $T \rightarrow T . / F , *$
 $T \rightarrow T . * F , /$
 $T \rightarrow T . / F , /$

I26:

$E \rightarrow E - T . ,)$
 $E \rightarrow E - T . , +$
 $E \rightarrow E - T . , -$
 $T \rightarrow T . * F ,)$
 $T \rightarrow T . / F ,)$
 $T \rightarrow T . * F , +$
 $T \rightarrow T . / F , +$
 $T \rightarrow T . * F , -$
 $T \rightarrow T . / F , -$
 $T \rightarrow T . * F , *$
 $T \rightarrow T . / F , *$
 $T \rightarrow T . * F , /$
 $T \rightarrow T . / F , /$

I27:

$T \rightarrow T * F . ,)$
 $T \rightarrow T * F . , +$
 $T \rightarrow T * F . , -$

$T \rightarrow T * F . , *$
 $T \rightarrow T * F . , /$

I28:
 $T \rightarrow T / F . ,)$
 $T \rightarrow T / F . , +$
 $T \rightarrow T / F . , -$
 $T \rightarrow T / F . , *$
 $T \rightarrow T / F . , /$

I29:
 $F \rightarrow (E) . ,)$
 $F \rightarrow (E) . , +$
 $F \rightarrow (E) . , -$
 $F \rightarrow (E) . , *$
 $F \rightarrow (E) . , /$