

|        | a | b  | c | d... | $\$$ | X | Y | Z |
|--------|---|----|---|------|------|---|---|---|
| states | 0 | 53 |   | r4   |      | 6 | 7 | 8 |
|        | 1 |    |   |      |      |   |   |   |
|        | 2 |    |   |      |      |   |   |   |
|        | 3 |    |   |      |      |   |   |   |
|        | 4 |    |   |      |      |   |   |   |
|        | ⋮ |    |   |      |      |   |   |   |

$A \rightarrow d$       state  $j$        $A \rightarrow d \cdot$        $a \in FOLLOW(A)$

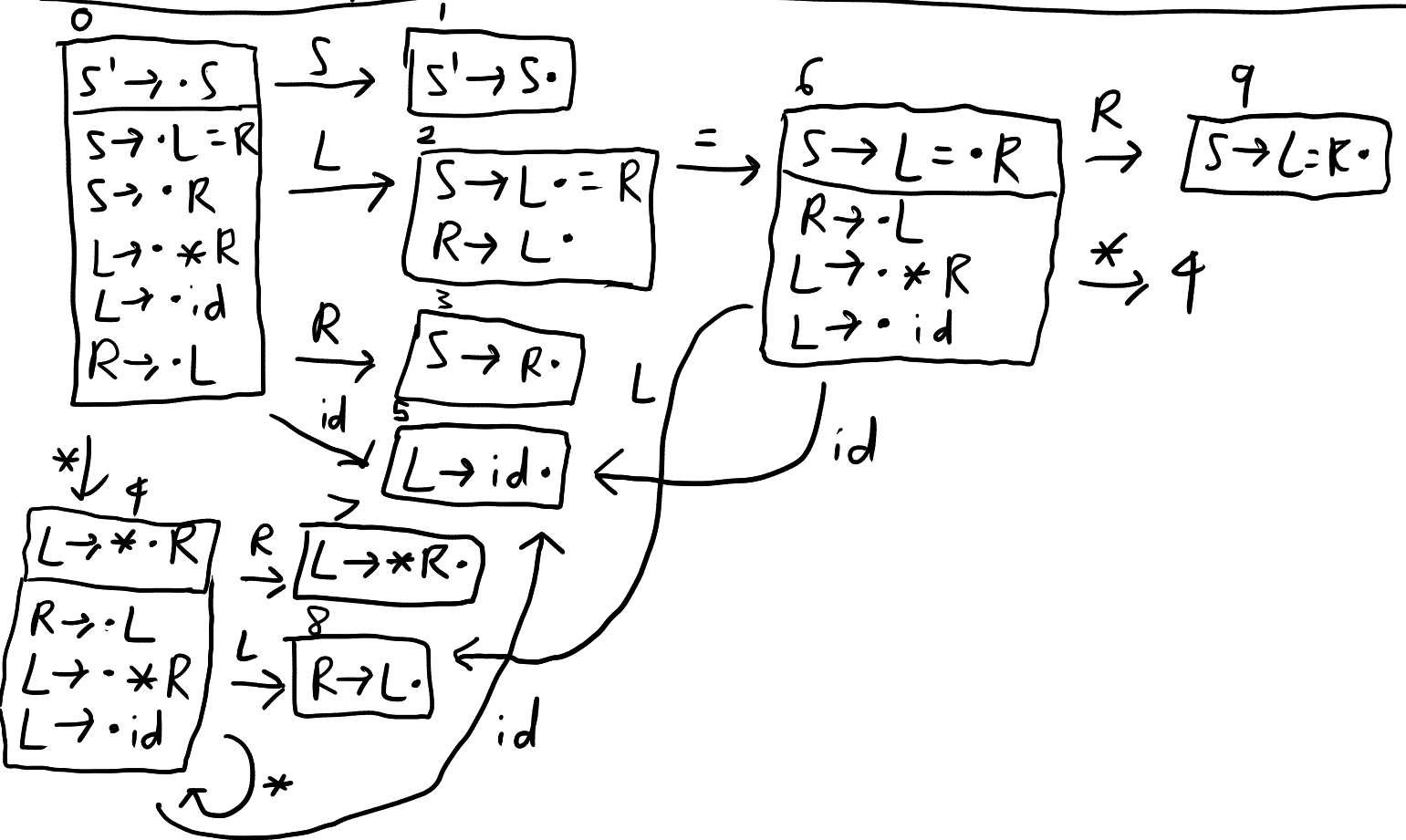
$$S \rightarrow L \overset{\textcircled{2}}{=} R \overset{\textcircled{3}}{I} R$$

$$L \rightarrow * \overset{\textcircled{4}}{R} \mid \overset{\textcircled{5}}{\text{id}}$$

$$R \rightarrow \overset{\textcircled{6}}{L}$$

$$S' \overset{\textcircled{1}}{\rightarrow} S$$

|    | FIRST | FOLLOW |
|----|-------|--------|
| S  | *, id | \$     |
| L  | *, id | =, \$  |
| R  | *, id | \$, =  |
| S' | *, id | \$     |



|   | *  | id | =     | \$ | S' | S | L | R |
|---|----|----|-------|----|----|---|---|---|
| 0 | s4 | s5 |       |    |    | 1 | 2 | 3 |
| 1 |    |    |       | r1 |    |   |   |   |
| 2 |    |    | s6/r6 | r6 |    |   |   |   |
| 3 |    |    | r3    | r3 |    |   |   |   |
| 4 | s4 | s5 |       |    |    |   | 8 | 7 |
| 5 |    |    | r5    | r5 |    |   |   |   |
| 6 | s4 | s5 |       |    |    |   | 8 | 9 |
| 7 |    |    | r4    | r4 |    |   |   |   |
| 8 |    |    | r6    | r6 |    |   |   |   |
| 9 |    |    |       | r2 |    |   |   |   |

| stack   | input     | \$                  |
|---------|-----------|---------------------|
| 0       | * id = id |                     |
| 0 4     | id = id   |                     |
| 0 4 5   | = id      |                     |
| 0 4     | = id      | } reduce by prod. 5 |
| 0 4 8   | = id      |                     |
| 0 4     | = id      | } red. by prod. 6   |
| 0 4 7   | = id      |                     |
| 0       | = id      | } red. by prod. 4   |
| 0 2     | = id      |                     |
| 0 2 6   | id        |                     |
| 0 2 6 5 | \$        | } red by prod 5     |
| 0 2 6   | \$        |                     |
| 0 2 6 8 | \$        | } red by prod 6     |
| 0 2 6   | \$        |                     |
| 0 2 6 9 |           | } red by prod 2     |
| 0       |           |                     |
| 0 1     |           | } red by prod 1     |
| 0       |           |                     |

1, 2, 6, 5, 4, 6, 5

S'  
S  
L = R  
L = L  
L = id  
\* R = id  
\* L = id  
\* id = id