

$P = S.$
 $S = S, "+", M \mid M.$
 $M = M, "**", T \mid T.$
 $T = "1" \mid "2" \mid "3" \mid "4".$

(state)	Production	(Origin)	Comment
S(0): $\cdot 2 + 3 * 4$			
1	$P \rightarrow \cdot S$	0	start rule
2	$S \rightarrow \cdot S + M$	0	predict from (1)
3	$S \rightarrow \cdot M$	0	predict from (1)
4	$M \rightarrow \cdot M * T$	0	predict from (3)
5	$M \rightarrow \cdot T$	0	predict from (3)
6	$T \rightarrow \cdot \text{number}$	0	predict from (5)
S(1): $2 \cdot + 3 * 4$			
1	$T \rightarrow \text{number} \cdot$	0	scan from S(0)(6)
2	$M \rightarrow T \cdot$	0	complete from (1) and S(0)(5)
3	$M \rightarrow M \cdot * T$	0	complete from (2) and S(0)(4)
4	$S \rightarrow M \cdot$	0	complete from (2) and S(0)(3)
5	$S \rightarrow S \cdot + M$	0	complete from (4) and S(0)(2)
6	$P \rightarrow S \cdot$	0	complete from (4) and S(0)(1)
S(2): $2 + \cdot 3 * 4$			
1	$S \rightarrow S + \cdot M$	0	scan from S(1)(5)
2	$M \rightarrow \cdot M * T$	2	predict from (1)
3	$M \rightarrow \cdot T$	2	predict from (1)
4	$T \rightarrow \cdot \text{number}$	2	predict from (3)
S(3): $2 + 3 \cdot * 4$			
1	$T \rightarrow \text{number} \cdot$	2	scan from S(2)(4)
2	$M \rightarrow T \cdot$	2	complete from (1) and S(2)(3)
3	$M \rightarrow M \cdot * T$	2	complete from (2) and S(2)(2)
4	$S \rightarrow S + M \cdot$	0	complete from (2) and S(2)(1)
5	$S \rightarrow S \cdot + M$	0	complete from (4) and S(0)(2)
6	$P \rightarrow S \cdot$	0	complete from (4) and S(0)(1)
S(4): $2 + 3 * \cdot 4$			
1	$M \rightarrow M * \cdot T$	2	scan from S(3)(3)
2	$T \rightarrow \cdot \text{number}$	4	predict from (1)
S(5): $2 + 3 * 4 \cdot$			
1	$T \rightarrow \text{number} \cdot$	4	scan from S(4)(2)
2	$M \rightarrow M * T \cdot$	2	complete from (1) and S(4)(1)
3	$M \rightarrow M \cdot * T$	2	complete from (2) and S(2)(2)
4	$S \rightarrow S + M \cdot$	0	complete from (2) and S(2)(1)
5	$S \rightarrow S \cdot + M$	0	complete from (4) and S(0)(2)
6	$P \rightarrow S \cdot$	0	complete from (4) and S(0)(1)

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