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CS453

quiz

1.

$S \rightarrow S + S$ $S \rightarrow S * S$ $S \rightarrow id$		
$id + id * id$		
Stack	input	Action
\$	id + id * id	shift + id
\$ id	+ id * id	reduce $S \rightarrow id$
\$ S	+ id * id	shift + +
\$ S +	id * id	shift + id
\$ S + id	* id	reduce $S \rightarrow id$
\$ S + S	* id	reduce $S \rightarrow S + S$
\$ S	* id	shift *
\$ S *	id	shift + id
\$ S * id	\$	reduce $S \rightarrow id$
\$ S * S	\$	reduce $S \rightarrow S * S$
\$ S	\$	Accept

2.

3. What are the two major categories for Parser?

Ans: 1. Top down Parser :

2. Bottom Up Parser :