

1.  $\langle \text{program} \rangle \rightarrow \langle \text{statement} \rangle^* \text{ EOF}$
2.  $\langle \text{statement} \rangle \rightarrow \text{EOL}$
3.  $\langle \text{statement} \rangle \rightarrow \text{var} \mid \text{let ID} ( : \langle \text{type} \rangle )? = \langle \text{expression} \rangle$
4.  $\langle \text{statement} \rangle \rightarrow \text{ID} = \langle \text{expression} \rangle$
5.  $\langle \text{statement} \rangle \rightarrow \text{if} \langle \text{logic\_exp} \rangle \langle \text{frame} \rangle (\text{else} \langle \text{frame} \rangle )?$
6.  $\langle \text{statement} \rangle \rightarrow \text{while} \langle \text{logic\_exp} \rangle \langle \text{frame} \rangle$
7.  $\langle \text{statement} \rangle \rightarrow \text{func ID} ( ( \_ \mid \text{ID ID} : \langle \text{type} \rangle )? ( , \_ \mid \text{ID ID} : \langle \text{type} \rangle )^* ) ( \rightarrow \langle \text{type} \rangle )? \text{ EOL? } \langle \text{frame} \rangle$
8.  $\langle \text{statement} \rangle \rightarrow \langle \text{func\_call} \rangle$
9.  $\langle \text{statement} \rangle \rightarrow \text{return} \langle \text{expression} \rangle ?$
10.  $\langle \text{type} \rangle \rightarrow \text{Double} ( ? ) ?$
11.  $\langle \text{type} \rangle \rightarrow \text{String} ( ? ) ?$
12.  $\langle \text{type} \rangle \rightarrow \text{Int} ( ? ) ?$
13.  $\langle \text{expression} \rangle \rightarrow \text{value}$
14.  $\langle \text{expression} \rangle \rightarrow \text{ID}$
15.  $\langle \text{expression} \rangle \rightarrow \langle \text{func\_call} \rangle$
16.  $\langle \text{expression} \rangle \rightarrow \langle \text{term} \rangle \mid \langle \text{expression} \rangle \langle \text{add\_op} \rangle \langle \text{term} \rangle$
17.  $\langle \text{term} \rangle \rightarrow \langle \text{factor} \rangle \mid \langle \text{term} \rangle \langle \text{mult\_op} \rangle \langle \text{factor} \rangle$
18.  $\langle \text{factor} \rangle \rightarrow \text{ID} \mid \text{value} \mid \langle \text{factor} \rangle ( \langle \text{expression} \rangle )$
19.  $\langle \text{add\_op} \rangle \rightarrow + \mid -$
20.  $\langle \text{mult\_op} \rangle \rightarrow * \mid /$
21.  $\langle \text{logic\_exp} \rangle \rightarrow \langle \text{expression} \rangle \text{ logic\_sign } \langle \text{expression} \rangle$
22.  $\langle \text{logic\_exp} \rangle \rightarrow ( \langle \text{logic\_exp} \rangle )$
23.  $\langle \text{frame} \rangle \rightarrow \{ \langle \text{statement\_list} \rangle \}$
24.  $\langle \text{func\_call} \rangle \rightarrow \text{ID} ( ( \_ \mid \text{ID} \langle \text{expression} \rangle )? ( , \_ \mid \text{ID} \langle \text{expression} \rangle ) )$