

spec2-1

$\langle \text{program} \rangle \Rightarrow \langle \text{statement-list} \rangle$

$\langle \text{statement-list} \rangle \Rightarrow \langle \text{statement-list} \rangle \langle \text{statement} \rangle$

$\langle \text{statement-list} \rangle \Rightarrow \epsilon$

$\langle \text{statement} \rangle \Rightarrow \langle \text{expression} \rangle ;$

$\langle \text{statement} \rangle \Rightarrow \langle \text{typename} \rangle \langle \text{variable-list} \rangle ;$

$\langle \text{statement} \rangle \Rightarrow \langle \text{if-statement} \rangle$

$\langle \text{if-statement} \rangle \Rightarrow \text{if} (\langle \text{expression} \rangle) \langle \text{block} \rangle$

$\langle \text{block} \rangle \Rightarrow \langle \text{statement} \rangle$

$\langle \text{block} \rangle \Rightarrow \{ \langle \text{statement-list} \rangle \}$

$\langle \text{variable-list} \rangle \Rightarrow \langle \text{identifier} \rangle$

$\langle \text{variable-list} \rangle \Rightarrow \langle \text{variable-list} \rangle , \langle \text{identifier} \rangle$

$\langle \text{expression} \rangle \Rightarrow \langle \text{term} \rangle$

$\langle \text{expression} \rangle \Rightarrow (\langle \text{expression} \rangle)$

$\langle \text{expression} \rangle \Rightarrow \langle \text{expression} \rangle \langle \text{operator} \rangle \langle \text{term} \rangle$

$\langle \text{typename} \rangle \Rightarrow \langle \text{int} \rangle$

$\langle \text{typename} \rangle \Rightarrow \langle \text{double} \rangle$

$\langle \text{operator} \rangle \Rightarrow +$

$\langle \text{operator} \rangle \Rightarrow -$

$\langle \text{operator} \rangle \Rightarrow =$

$\langle \text{operator} \rangle \Rightarrow ==$

$\langle \text{term} \rangle \Rightarrow \langle \text{integer} \rangle$

$\langle \text{term} \rangle \Rightarrow \langle \text{real} \rangle$

$\langle \text{term} \rangle \Rightarrow \langle \text{identifier} \rangle$