

CFG	First	Follow	Selection
<start> → <defs> \$mfunction main void () {<MST>} <defs>	F(start) → {fixed, abstract, class, \$function, enum, interface}	Follow(start) -> { \$ }	Sel(start) -> { fixed, abstract, class, \$mfunction, enum , interface}
<defs> → <class_dec><defs> <defs> → <fn_dec> <defs> <defs> → <enum> <defs> <defs> -> <interface_dec><defs> <defs> → E	F(defs) → {fixed, abstract, class} F(defs) → {\$function} F(defs) → {enum} F(defs) -> {interface} F(defs) → {E}	Follow(defs) -> { \$mfunction, \$ }	Sel(defs) -> { fixed, abstract, class } Sel(defs) -> { \$function } Sel(defs) -> { enum } Sel(defs) -> { interface } Sel(defs) -> { \$mfunction, \$ }
<SST> → <while_st> <SST> → <for_st> <SST> → <return> <SST> → <switch> <SST> → <break> <SST> → <continue> <SST> → <if-elif-else> <SST> → <dec> <SST> → ID <SST1> <SST> → <inc_dec_op> ID; <SST1> -> <CB6> <SST1> → (<argu>) <SST2> <SST1> → <inc_dec_op>; <SST1> → .ID <assign1><CB6> <SST1> → [<exp>] <assign1><CB6> <SST2> → ; <SST2> → .ID <assign1><CB6>	F(SST) → {while} F(SST) → {for} F(SST) → {return} F(SST) → {switch} F(SST) → {break} F(SST) → {continue} F(SST) → {if} F(SST) → {take} F(SST) → {ID} F(SST) → {++, --} F(SST1) -> { =, CO } F(SST1) → { (} F(SST1) → {++, --} F(SST1) → { . } F(SST1) → { [} F(SST2) → { ; } F(SST2) → { . }	Follow(SST) -> {while, for, return, switch, break, continue, if, take, ID, ++, --, }, break, F(cfbbody)} Follow(SST1) → {while, for, return, switch, break, continue, if, take, ID, ++, --, }, break} Follow(SST2) → {while, for, return, switch, break, continue, if, take, ID, ++, --, }, break}	Sel(SST) -> { while } Sel(SST) -> { for } Sel(SST) -> { return } Sel(SST) -> { switch } Sel(SST) -> { break } Sel(SST) -> { continue } Sel(SST) -> { if } Sel(SST) -> { take } Sel(SST) -> { ID } Sel(SST) -> { ++, -- } Sel(SST1) -> { =, CO } Sel(SST1) -> { (} Sel(SST1) -> { ++, -- } Sel(SST1) -> { . } Sel(SST1) -> { [} Sel(SST2) -> { ; } Sel(SST2) -> { . }

$\langle \text{MST} \rangle \rightarrow \langle \text{SST} \rangle \langle \text{MST} \rangle \mid \text{E}$	$\text{F}(\text{MST}) \rightarrow \{\text{while, for, return, switch, break, continue, if, take, ID, ++, --}\}$ $\text{F}(\text{MST}) \rightarrow \{\text{E}\}$	$\text{Fol}(\text{MST}) \rightarrow \{\}, \text{break}\}$	$\text{Sel}(\text{MST}) \rightarrow \{\text{while, for, return, switch, break, continue, if, take, ID, ++, --}\}$ $\text{Sel}(\text{MST}) \rightarrow \{\}, \text{break}\}$
$\langle \text{assign} \rangle \rightarrow \text{ID}$ $\langle \text{assign1} \rangle \langle \text{assign_operator} \rangle \langle \text{exp} \rangle$ $\langle \text{assign_list} \rangle$ $\langle \text{assign_operator} \rangle \rightarrow = \mid \text{CO}$ $\langle \text{assign1} \rangle \rightarrow . \text{ID} \langle \text{assign1} \rangle$ $\langle \text{assign1} \rangle \rightarrow (\langle \text{argu} \rangle) . \text{ID} \langle \text{assign1} \rangle$ $\langle \text{assign1} \rangle \rightarrow [\langle \text{exp} \rangle] \langle \text{assign1} \rangle$ $\langle \text{assign1} \rangle \rightarrow \text{E}$ $\langle \text{assign_list} \rangle \rightarrow , \langle \text{assign} \rangle$ $\langle \text{assign_list} \rangle \rightarrow ;$	$\text{F}(\text{assign}) \rightarrow \{\text{ID}\}$ $\text{F}(\text{assign_operator}) \rightarrow \{=, \text{CO}\}$ $\text{F}(\text{assign1}) \rightarrow \{. \}$ $\text{F}(\text{assign1}) \rightarrow \{ (\}$ $\text{F}(\text{assign1}) \rightarrow \{ [\}$ $\text{F}(\text{assign1}) \rightarrow \{ \text{E} \}$ $\text{F}(\text{assign_list}) \rightarrow \{ , \}$ $\text{F}(\text{assign_list}) \rightarrow \{ ; \}$	$\text{Fol}(\text{assign}) \rightarrow \{\text{present, super, ID, const, (, not}\}$ $\text{Fol}(\text{assign_operator}) \rightarrow \{\text{present, super, ID, const, (, not}\}$ $\text{Fol}(\text{assign1}) \rightarrow \{=, \text{CO}\}$ $\text{Fol}(\text{assign_list}) \rightarrow \{\text{present, super, ID, const, (, not, while, for, return, switch, break, continue, if, take, ++, --,}, \text{break own}\}$	$\text{Sel}(\text{assign}) \rightarrow \{\text{ID}\}$ $\text{Sel}(\text{assign_operator}) \rightarrow \{=, \text{CO}\}$ $\text{Sel}(\text{assign1}) \rightarrow \{. \}$ $\text{Sel}(\text{assign1}) \rightarrow \{ (\}$ $\text{Sel}(\text{assign1}) \rightarrow \{ [\}$ $\text{Sel}(\text{assign1}) \rightarrow \{=, \text{CO}\}$ $\text{Sel}(\text{assign_list}) \rightarrow \{ , \}$ $\text{Sel}(\text{assign_list}) \rightarrow \{ ; \}$
$\langle \text{dec} \rangle \rightarrow \text{take} \langle \text{dec0} \rangle$ $\langle \text{dec0} \rangle \rightarrow \langle \text{f_dt} \rangle \langle \text{arr} \rangle : \text{ID} \langle \text{dec1} \rangle$ $\langle \text{dec1} \rangle \rightarrow \langle \text{dec_list} \rangle$ $\langle \text{dec1} \rangle \rightarrow = \langle \text{dec2} \rangle \langle \text{dec_list} \rangle$ $\langle \text{dec_list} \rangle \rightarrow , \langle \text{dec0} \rangle \mid ;$	$\text{F}(\text{dec}) \rightarrow \{\text{take}\}$ $\text{F}(\text{dec0}) \rightarrow \{\text{dt, ID}\}$ $\text{F}(\text{dec1}) \rightarrow \{ , , ; \}$ $\text{F}(\text{dec1}) \rightarrow \{ = \}$ $\text{F}(\text{dec_list}) \rightarrow \{ , , ; \}$	$\text{Fol}(\text{dec}) \rightarrow \{\text{while, for, return, switch, break, continue, if, take, ID, ++, --,}, \text{break, own,}, \}$ $\text{Fol}(\text{dec0}) \rightarrow \{\text{while, for, return, switch, break, continue, if, take, ID, ++, --,}, \text{break, own,}, \}$ $\text{Fol}(\text{dec1}) \rightarrow \{\text{while, for, return, switch, break, continue, if, take, ID, ++, --,}, \text{break, own,}, \}$	$\text{Sel}(\text{dec}) \rightarrow \{\text{take}\}$ $\text{Sel}(\text{dec0}) \rightarrow \{\text{dt, ID}\}$ $\text{Sel}(\text{dec1}) \rightarrow \{ , , ; \}$ $\text{Sel}(\text{dec1}) \rightarrow \{ = \}$

$\langle \text{dec2} \rangle \rightarrow [\langle \text{argu} \rangle]$ $\langle \text{dec2} \rangle \rightarrow \text{new ID } (\langle \text{argu} \rangle)$ $\langle \text{dec2} \rangle \rightarrow \langle \text{exp} \rangle$	$F(\text{dec2}) \rightarrow \{ [] \}$ $F(\text{dec2}) \rightarrow \{ \text{new} \}$ $F(\text{dec2}) \rightarrow \{ \text{present, super, ID, const, (, not} \}$	$Fol(\text{dec_list}) \rightarrow \{ \text{while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break, own, }, \}$ $Fol(\text{dec2}) \rightarrow \{ ,, ; \}$	$Sel(\text{dec_list}) \rightarrow \{ ,, ; \}$ $Sel(\text{dec2}) \rightarrow \{ [] \}$ $Sel(\text{dec2}) \rightarrow \{ \text{new} \}$ $Sel(\text{dec2}) \rightarrow \{ \text{present, super, ID, const, (, not} \}$
$\langle f_dt \rangle \rightarrow dt \mid ID$ $\langle f_dt1 \rangle \rightarrow \langle f_dt \rangle \langle arr \rangle$ $\langle f_dt1 \rangle \rightarrow \text{void}$ $\langle arr \rangle \rightarrow []$ $\langle arr \rangle \rightarrow E$	$F(f_dt) \rightarrow \{ DT, ID \}$ $F(f_dt1) \rightarrow \{ DT, ID \}$ $F(f_dt1) \rightarrow \{ \text{void} \}$ $F(arr) \rightarrow \{ [] \}$ $F(arr) \rightarrow \{ E \}$	$Fol(f_dt) \rightarrow \{ [] \}$ $Fol(f_dt1) \rightarrow \{ (\}$ $Fol(arr) \rightarrow \{ :, (\}$	$Sel(f_dt) \rightarrow \{ DT, ID \}$ $Sel(f_dt1) \rightarrow \{ DT, ID \}$ $Sel(f_dt1) \rightarrow \{ \text{void} \}$ $Sel(arr) \rightarrow \{ [] \}$ $Sel(arr) \rightarrow \{ :, (\}$
$\langle \text{exp} \rangle \rightarrow \langle AE \rangle \langle \text{exp}' \rangle$ $\langle \text{exp}' \rangle \rightarrow \text{OR } \langle AE \rangle \langle \text{exp}' \rangle \mid E$ $\langle AE \rangle \rightarrow \langle RE \rangle \langle AE' \rangle$	$F(\text{exp}) \rightarrow \{ \text{present, super, ID, const, (, not} \}$ $F(\text{exp}') \rightarrow \{ \text{OR} \}$ $F(\text{exp}') \rightarrow \{ E \}$ $F(AE) \rightarrow \{ \text{present, super, ID, const, (, not} \}$	$Fol(\text{exp}) \rightarrow \{], ,, \}, \text{present, super, ID, const, (, not, }, \text{while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break} \}$ $Fol(\text{exp}') \rightarrow \{], ,, \}, \text{present, super, ID, const, (, not, }, \text{while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break} \}$ $Fol(AE) \rightarrow \{ \text{OR, }, ,, \}, \text{present, super, ID, const, (, not, }, \text{while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break} \}$	$Sel(\text{exp}) \rightarrow \{ \text{present, super, ID, const, (, not} \}$ $Sel(\text{exp}') \rightarrow \{ \text{OR} \}$ $Sel(\text{exp}') \rightarrow \{], ,, \}, \text{present, super, ID, const, (, not, }, \text{while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break} \}$ $Sel(AE) \rightarrow \{ \text{present, super, ID, const, (, not} \}$

$\langle AE' \rangle \rightarrow \text{AND } \langle RE \rangle \langle AE' \rangle \mid E$	$F(AE') \rightarrow \{\text{AND}\}$ $F(AE') \rightarrow \{E\}$	$Fol(AE') \rightarrow \{\text{OR, }, ,, \}, \text{present, super, ID, const, (, not, ;, while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$	$Sel(AE') \rightarrow \{\text{AND}\}$ $Sel(AE') \rightarrow \{\text{OR, }, ,, \}, \text{present, super, ID, const, (, not, ;, while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$
$\langle RE \rangle \rightarrow \langle E \rangle \langle RE' \rangle$	$F(RE) \rightarrow \{\text{present, super, ID, const, (, not}\}$	$Fol(RE) \rightarrow \{\text{AND, OR, }, ,, \}, \text{present, super, ID, const, (, not, ;, while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$	$Sel(RE) \rightarrow \{\text{present, super, ID, const, (, not}\}$
$\langle RE' \rangle \rightarrow \text{ROP } \langle E \rangle \langle RE' \rangle \mid E$	$F(RE') \rightarrow \{\text{ROP}\}$ $F(RE') \rightarrow \{E\}$	$Fol(RE') \rightarrow \{\text{AND, OR, }, ,, \}, \text{present, super, ID, const, (, not, ;, while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$	$Sel(RE') \rightarrow \{\text{ROP}\}$ $Sel(RE') \rightarrow \{\text{AND, OR, }, ,, \}, \text{present, super, ID, const, (, not, ;, while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$
$\langle E \rangle \rightarrow \langle T \rangle \langle E' \rangle$	$F(E) \rightarrow \{\text{present, super, ID, const, (, not}\}$	$Fol(E) \rightarrow \{\text{ROP, AND, OR, }, ,, \}, \text{present, super, ID, const, (, not, ;, while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$	$Sel(E) \rightarrow \{\text{present, super, ID, const, (, not}\}$
$\langle E' \rangle \rightarrow \text{PM } \langle T \rangle \langle E' \rangle$ $\langle E' \rangle \rightarrow E$	$F(E') \rightarrow \{\text{PM}\}$ $F(E') \rightarrow \{E\}$	$Fol(E') \rightarrow \{\text{ROP, AND, OR, }, ,, \}, \text{present, super, ID, const, (, not, ;, while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$	$Sel(E') \rightarrow \{\text{PM}\}$ $Sel(E') \rightarrow \{\text{ROP, AND, OR, }, ,, \}, \text{present, super, ID, const, (, not, ;, while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$
	$F(T) \rightarrow \{\text{present, super, ID, const, (, not}\}$		$Sel(T) \rightarrow \{\text{present, super, ID, const, (, not}\}$

<p>$\langle T \rangle \rightarrow \langle F \rangle \langle T' \rangle$</p> <p>$\langle T' \rangle \rightarrow \text{MDM } \langle F \rangle \langle T' \rangle \mid E$</p> <p> $\langle F \rangle \rightarrow \langle TS \rangle \text{ ID } \langle O \rangle$ $\langle F \rangle \rightarrow \text{const}$ $\langle F \rangle \rightarrow (\langle \text{exp} \rangle)$ $\langle F \rangle \rightarrow \text{not } \langle F \rangle$ </p> <p> $\langle O \rangle \rightarrow [\langle \text{exp} \rangle] \langle O' \rangle$ $\langle O \rangle \rightarrow (\langle \text{argu} \rangle) \langle O' \rangle$ $\langle O \rangle \rightarrow \langle O' \rangle$ </p> <p> $\langle O' \rangle \rightarrow . \text{ ID } \langle O \rangle$ $\langle O' \rangle \rightarrow E$ </p>	<p> $F(T') \rightarrow \{\text{MDM}\}$ $F(T') \rightarrow \{E\}$ </p> <p> $F(F) \rightarrow \{\text{present, super, ID}\}$ $F(F) \rightarrow \{\text{const}\}$ $F(F) \rightarrow \{(\)\}$ $F(F) \rightarrow \{\text{not}\}$ </p> <p> $F(O) \rightarrow \{[\]\}$ $F(O) \rightarrow \{(\)\}$ $F(O) \rightarrow \{., E\}$ </p> <p> $F(O') \rightarrow \{.\}$ $F(O') \rightarrow \{E\}$ </p> <p> $F(TS) \rightarrow \{\text{present}\}$ $F(TS) \rightarrow \{\text{super}\}$ $F(TS) \rightarrow \{E\}$ </p>	<p> $\text{Fol}(T) \rightarrow \{\text{PM, ROP, AND, OR, }, ,, \text{), present, super, ID, const, (, not, }, \text{while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$ </p> <p> $\text{Fol}(T') \rightarrow \{\text{PM, ROP, AND, OR, }, ,, \text{), present, super, ID, const, (, not, }, \text{while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$ </p> <p> $\text{Fol}(F) \rightarrow \{\text{MDM, PM, ROP, AND, OR, }, ,, \text{), present, super, ID, const, (, not, }, \text{while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$ </p> <p> $\text{Fol}(O) \rightarrow \{\text{MDM, PM, ROP, AND, OR, }, ,, \text{), present, super, ID, const, (, not, }, \text{while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$ </p> <p> $\text{Fol}(O') \rightarrow \{\text{MDM, PM, ROP, AND, OR, }, ,, \text{), present, super, ID, const, (, not, }, \text{while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$ </p>	<p>const, (, not }</p> <p> $\text{Sel}(T') \rightarrow \{\text{MDM}\}$ $\text{Sel}(T') \rightarrow \{\text{PM, ROP, AND, OR, }, ,, \text{), present, super, ID, const, (, not, }, \text{while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$ </p> <p> $\text{Sel}(F) \rightarrow \{\text{present, super, ID}\}$ $\text{Sel}(F) \rightarrow \{\text{const}\}$ $\text{Sel}(F) \rightarrow \{(\)\}$ $\text{Sel}(F) \rightarrow \{\text{not}\}$ </p> <p> $\text{Sel}(O) \rightarrow \{[\]\}$ $\text{Sel}(O) \rightarrow \{(\)\}$ $\text{Sel}(O) \rightarrow \{., \text{MDM, PM, ROP, AND, OR, }, ,, \text{), present, super, ID, const, (, not, }, \text{while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$ </p> <p> $\text{Sel}(O') \rightarrow \{.\}$ $\text{Sel}(O') \rightarrow \{\text{MDM, PM, ROP, AND, OR, }, ,, \text{), present, super, ID, const, (, not, }, \text{while, for, return, switch, break, continue, if, take, ID, ++, --, }, \text{break}\}$ </p> <p>$\text{Sel}(TS) \rightarrow \{\text{present}\}$</p>
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$\langle TS \rangle \rightarrow \text{present.}$ $\langle TS \rangle \rightarrow \text{super.}$ $\langle TS \rangle \rightarrow E$		$\text{Fol}(TS) \rightarrow \{ ID \}$	$\text{Sel}(TS) \rightarrow \{ \text{super} \}$ $\text{Sel}(TS) \rightarrow \{ ID \}$
$\langle \text{argu} \rangle \rightarrow \langle \text{exp} \rangle \langle \text{argu1} \rangle$ $\langle \text{argu} \rangle \rightarrow E$ $\langle \text{argu1} \rangle \rightarrow , \langle \text{exp} \rangle \langle \text{argu1} \rangle$ $\langle \text{argu1} \rangle \rightarrow E$	$\text{F}(\text{argu}) \rightarrow \{ \text{present, super, ID, const, (, not} \}$ $\text{F}(\text{argu}) \rightarrow \{ E \}$ $\text{F}(\text{argu1}) \rightarrow \{ , \}$ $\text{F}(\text{argu}) \rightarrow \{ E \}$	$\text{Fol}(\text{argu}) \rightarrow \{ \}, \}$ $\text{Fol}(\text{argu1}) \rightarrow \{ \}, \}$	$\text{Sel}(\text{argu}) \rightarrow \{ \text{present, super, ID, const, (, not} \}$ $\text{Sel}(\text{argu}) \rightarrow \{ \}, \}$ $\text{Sel}(\text{argu1}) \rightarrow \{ , \}$ $\text{Sel}(\text{argu1}) \rightarrow \{ \}, \}$
$\langle \text{while_st} \rangle \rightarrow \text{while}(\langle \text{exp} \rangle) \langle \text{MST} \rangle$	$\text{F}(\text{while_st}) \rightarrow \{ \text{while} \}$	$\text{Fol}(\text{while_st}) \rightarrow \{ \text{while, for, return, switch, break, continue, if, take, ID, ++, --,}, \text{break} \}$	$\text{Sel}(\text{while_st}) \rightarrow \{ \text{while} \}$
$\langle \text{for_st} \rangle \rightarrow \text{for}(\langle \text{assign} \rangle \langle \text{exp}; \langle \text{inc_dec_st} \rangle) \langle \text{MST} \rangle$	$\text{F}(\text{for_st}) \rightarrow \{ \text{for} \}$	$\text{Fol}(\text{for_st}) \rightarrow \{ \text{while, for, return, switch, break, continue, if, take, ID, ++, --,}, \text{break} \}$	$\text{Sel}(\text{for_st}) \rightarrow \{ \text{for} \}$
$\langle \text{inc_dec_st} \rangle \rightarrow \text{ID} \langle \text{inc_dec_op} \rangle$ $\langle \text{inc_dec_st} \rangle \rightarrow \langle \text{inc_dec_op} \rangle \text{ID}$ $\langle \text{inc_dec_op} \rangle \rightarrow ++ \mid --$	$\text{F}(\text{inc_dec_st}) \rightarrow \{ \text{ID} \}$ $\text{F}(\text{inc_dec_st}) \rightarrow \{ ++, -- \}$ $\text{F}(\text{inc_dec_op}) \rightarrow \{ ++, -- \}$	$\text{Fol}(\text{inc_dec_st}) \rightarrow \{ \}$ $\text{Fol}(\text{inc_dec_op}) \rightarrow \{ \text{ID, while, for, return, switch, break, continue, if, take, ID, ++, --,}, \text{break, } \}$	$\text{Sel}(\text{inc_dec_st}) \rightarrow \{ \text{ID} \}$ $\text{Sel}(\text{inc_dec_st}) \rightarrow \{ ++, -- \}$ $\text{Sel}(\text{inc_dec_op}) \rightarrow \{ ++, -- \}$
$\langle \text{acc_mod} \rangle \rightarrow \text{shared}$	$\text{F}(\text{acc_mod}) \rightarrow \{ \text{shared} \}$		

$\langle \text{acc_mod} \rangle \rightarrow \text{own}$ $\langle \text{acc_mod} \rangle \rightarrow E$	$F(\text{acc_mod}) \rightarrow \{ \text{own} \}$ $F(\text{acc_mod}) \rightarrow \{ E \}$		
$\langle \text{fixed} \rangle \rightarrow \text{fixed}$ $\langle \text{fixed} \rangle \rightarrow E$ $\langle \text{abstract} \rangle \rightarrow \text{abstract}$ $\langle \text{abstract} \rangle \rightarrow E$ $\langle \text{static} \rangle \rightarrow \text{static}$ $\langle \text{static} \rangle \rightarrow E$	$F(\text{fixed}) \rightarrow \{ \text{fixed} \}$ $F(\text{fixed}) \rightarrow \{ E \}$ $F(\text{abstract}) \rightarrow \{ \text{abstract} \}$ $F(\text{abstract}) \rightarrow \{ E \}$ $F(\text{static}) \rightarrow \{ \text{static} \}$ $F(\text{static}) \rightarrow \{ E \}$	$\text{Fol}(\text{fixed}) \rightarrow \{ \text{abstract}, \text{class}, \text{static}, \text{take}, \$\text{function} \}$ $\text{Fol}(\text{abstract}) \rightarrow \{ \text{class}, \text{static}, \text{take}, \text{abstract}, \$\text{function} \}$ $\text{Fol}(\text{static}) \rightarrow \{ \text{take}, \text{abstract}, \$\text{function} \}$	$\text{Sel}(\text{fixed}) \rightarrow \{ \text{fixed} \}$ $\text{Sel}(\text{fixed}) \rightarrow \{ \text{abstract}, \text{class}, \text{static}, \text{take}, \$\text{function} \}$ $\text{Sel}(\text{abstract}) \rightarrow \{ \text{abstract} \}$ $\text{Sel}(\text{abstract}) \rightarrow \{ \text{class}, \text{static}, \text{take}, \text{abstract}, \$\text{function} \}$ $\text{Sel}(\text{static}) \rightarrow \{ \text{static} \}$ $\text{Sel}(\text{static}) \rightarrow \{ \text{take}, \text{abstract}, \$\text{function} \}$
$\langle \text{class_dec} \rangle \rightarrow \langle \text{fixed} \rangle \langle \text{abstract} \rangle$ $\text{class ID } \langle \text{interface} \rangle \langle \text{inheritance} \rangle$ $\{ \langle \text{CB} \rangle \}$	$F(\text{class_dec}) \rightarrow \{ \text{fixed}, \text{abstract}, \text{class} \}$	$\text{Fol}(\text{class_dec}) \rightarrow \{ \text{fixed}, \text{abstract}, \text{class}, \$\text{function}, \text{enum}, \text{Fol}(\text{defs}) \}$	$\text{Sel}(\text{class_dec}) \rightarrow \{ \text{fixed}, \text{abstract}, \text{class} \}$
$\langle \text{inheritance} \rangle \rightarrow \text{child_Of ID}$ $\langle \text{multi_ID} \rangle$ $\langle \text{inheritance} \rangle \rightarrow E$ $\langle \text{multi_ID} \rangle \rightarrow , \text{ID } \langle \text{multi_ID} \rangle \mid E$	$F(\text{inheritance}) \rightarrow \{ \text{child_Of} \}$ $F(\text{inheritance}) \rightarrow \{ E \}$ $F(\text{multi_ID}) \rightarrow \{ , \}$ $F(\text{multi_ID}) \rightarrow \{ E \}$	$\text{Fol}(\text{inheritance}) \rightarrow \{ \{ \}$ $\text{Fol}(\text{multi_ID}) \rightarrow \{ \{ \}$	$\text{Sel}(\text{inheritance}) \rightarrow \{ \text{child_Of} \}$ $\text{Sel}(\text{inheritance}) \rightarrow \{ \{ \}$ $\text{Sel}(\text{multi_ID}) \rightarrow \{ , , \}$ $\text{Sel}(\text{multi_ID}) \rightarrow \{ \{ \}$
$\langle \text{interface_dec} \rangle \rightarrow \text{interface ID}$ $\{ \langle \text{interface_body} \rangle \}$ $\langle \text{interface_dec} \rangle \rightarrow E$ $\langle \text{interface_body} \rangle \rightarrow \langle \text{dec} \rangle$ $\langle \text{interface_body} \rangle$	$F(\text{interface_dec}) \rightarrow \{ \text{interface} \}$ $F(\text{interface_dec}) \rightarrow \{ E \}$ $F(\text{interface_body}) \rightarrow \{ \text{take} \}$	$\text{Fol}(\text{interface_dec}) \rightarrow \{ \text{fixed}, \text{abstract}, \text{class}, \$\text{function}, \text{enum}, \text{interface}, \$\text{mfunction}, \$ \}$ $\text{Fol}(\text{interface_body}) \rightarrow \{ \{ \}$	$\text{Sel}(\text{interface_dec}) \rightarrow \{ \text{interface} \}$ $\text{Sel}(\text{interface_dec}) \rightarrow \{ \text{fixed}, \text{abstract}, \text{class}, \$\text{function}, \text{enum}, \text{interface}, \$\text{mfunction}, \$ \}$ $\text{Sel}(\text{interface_body}) \rightarrow \{ \text{take} \}$

<p><interface_body> -> \$function ID <f_dt1> (<parameter>) ;<interface_body1> <interface_body1> -><interface_body></p> <p><interface> → implements ID <interface1> <interface> → E</p> <p><interface1> → , ID <interface1> <interface1> → E</p>	<p>F(interface_body)-> { \$function } F(interface_body1) -> {take, \$function}</p> <p>F(interface) → { implements } F(interface) → E</p> <p>F(interface1) → { , } F(interface1) → { E }</p>	<p>Fol(interface_body1) -> { } }</p> <p>Fol(interface) -> { child_Of, { }</p> <p>Fol(interface1) -> { child_Of, { }</p>	<p>Sel(interface_body) -> {\$function}</p> <p>Sel(interface_body1) -> {take, \$function}</p> <p>Sel(interface) -> { implements } Sel(interface) -> { child_Of, { }</p> <p>Sel(interface1) -> { , } Sel(interface1) -> { child_Of, { }</p>
<p><CB> → <CB0> <CB1> <CB0> → shared {<CB2>} E <CB1> → own {<CB2>} E</p> <p><CB2> → <fixed><static><CB3> <CB2> → ID <CB4> <CB2> → E</p> <p><CB3> → <dec><CB2> <CB3> → <abstract>\$function ID <f_dt1>(<parameter>){<c_f_body>}< CB2></p>	<p>F(CB) → {shared, own, E} F(CB0) → {shared} F(CB0) → {E} F(CB1) → {own} F(CB1) → {E}</p> <p>F(CB2) → {fixed, static, abstract, \$function, take} F(CB2) → {ID} F(CB2) → {E}</p> <p>F(CB3) → {take} F(CB3) → {abstract, \$function}</p> <p>F(CB4) → { (} F(CB4) → { . } F(CB4) → { [}</p>	<p>Fol(CB) -> { } }</p> <p>Fol(CB0) -> { own , } }</p> <p>Fol(CB1) -> { } }</p> <p>Fol(CB2) -> { } }</p> <p>Fol(CB3) -> { } }</p> <p>Fol(CB4) -> { } }</p>	<p>Sel(CB) -> { shared, own, } }</p> <p>Sel(CB0) -> { shared } Sel(CB0) -> { own , } }</p> <p>Sel(CB1) -> { own } Sel(CB1) -> { } }</p> <p>Sel(CB2) -> { fixed, static, abstract, \$function, take } Sel(CB2) -> { ID } Sel(CB2) -> { } }</p> <p>Sel(CB3) -> { take } Sel(CB3) -> { abstract, \$function }</p> <p>Sel(CB4) -> { (} Sel(CB4) -> { . }</p>

<p> $\langle CB4 \rangle \rightarrow (\langle argu \rangle) \langle CB5 \rangle$ $\langle CB4 \rangle \rightarrow .ID \langle assign1 \rangle \langle CB6 \rangle$ $\langle CB4 \rangle \rightarrow [\langle exp \rangle] \langle assign1 \rangle \langle CB6 \rangle$ </p> <p> $\langle CB5 \rangle \rightarrow \langle CB2 \rangle$ </p> <p> $\langle CB5 \rangle \rightarrow . ID \langle assign1 \rangle \langle CB6 \rangle$ </p> <p> $\langle CB6 \rangle \rightarrow \langle assign_operator \rangle \langle exp \rangle$ $\langle assign_list \rangle$ </p> <p> $\langle c_f_body \rangle \rightarrow this. \langle c_f_body1 \rangle$ $\langle c_f_body \rangle$ $\langle c_f_body \rangle \rightarrow super.$ $\langle c_f_body1 \rangle \langle c_f_body \rangle$ $\langle c_f_body \rangle \rightarrow \langle SST \rangle \langle c_f_body \rangle$ $\langle c_f_body \rangle \rightarrow E$ </p> <p> $\langle c_f_body1 \rangle \rightarrow ID \langle c_f_body2 \rangle$ $\langle c_f_body2 \rangle \rightarrow (\langle argu \rangle)$ $\langle c_f_body3 \rangle$ $\langle c_f_body2 \rangle \rightarrow = \langle exp \rangle;$ $\langle c_f_body2 \rangle \rightarrow .ID \langle assign1 \rangle \langle CB6 \rangle$ $\langle c_f_body2 \rangle \rightarrow [\langle exp \rangle]$ $\langle assign1 \rangle \langle CB6 \rangle$ $\langle c_f_body2 \rangle \rightarrow ;$ $\langle c_f_body3 \rangle \rightarrow .ID \langle assign1 \rangle \langle CB6 \rangle$ $\langle c_f_body3 \rangle \rightarrow ;$ </p>	<p> $F(CB5) \rightarrow \{fixed, static, abstract, \\$function, take, ID, E\}$ $F(CB5) \rightarrow \{ . \}$ </p> <p> $F(CB6) \rightarrow \{ =, CO \}$ </p> <p> $F(c_f_body) \rightarrow \{this\}$ $F(c_f_body) \rightarrow \{super\}$ $F(c_f_body) \rightarrow \{while, for, return, switch, break, continue, if, take, ID, ++, --\}$ $F(c_f_body) \rightarrow \{E\}$ </p> <p> $F(c_f_body1) \rightarrow \{ID\}$ $F(c_f_body2) \rightarrow \{ (\}$ $F(c_f_body2) \rightarrow \{ . \}$ $F(c_f_body2) \rightarrow \{ [\}$ $F(c_f_body2) \rightarrow \{ = \}$ </p> <p> $F(c_f_body2) \rightarrow \{ ; \}$ $F(c_f_body3) \rightarrow \{ . \}$ $F(c_f_body3) \rightarrow \{ ; \}$ </p>	<p> $Fol(CB5) \rightarrow \{ \}$ </p> <p> $Fol(CB6) \rightarrow \{while, for, return, switch, break, continue, if, take, ID, ++, --, \}, break\}$ </p> <p> $Fol(c_f_body) \rightarrow \{ \}$ </p> <p> $Fol(c_f_body1) \rightarrow \{ this, super, while, for, return, switch, break, continue, if, take, ID, ++, -- \}$ $Fol(c_f_body2) \rightarrow \{this, super, while, for, return, switch, break, continue, if, take, ID, ++, -- \}$ </p> <p> $Fol(c_f_body3) \rightarrow \{ this, super, while, for, return, switch, break, continue, if, take, ID, ++, -- \}$ </p>	<p> $Sel(CB4) \rightarrow \{ [\}$ </p> <p> $Sel(CB5) \rightarrow \{ fixed, static, abstract, \\$function, take, ID, own \}$ </p> <p> $Sel(CB5) \rightarrow \{ . \}$ </p> <p> $Sel(CB6) \rightarrow \{ =, CO \}$ </p> <p> $Sel(c_f_body) \rightarrow \{ this \}$ $Sel(c_f_body) \rightarrow \{ super \}$ </p> <p> $Sel(c_f_body) \rightarrow \{while, for, return, switch, break, continue, if, take, ID, ++, --\}$ $Sel(c_f_body) \rightarrow \{ \}$ $Sel(c_f_body1) \rightarrow \{ ID \}$ $Sel(c_f_body2) \rightarrow \{ (\}$ $Sel(c_f_body2) \rightarrow \{ . \}$ $Sel(c_f_body2) \rightarrow \{ [\}$ $Sel(c_f_body2) \rightarrow \{ = \}$ </p> <p> $Sel(c_f_body2) \rightarrow \{ ; \}$ $Sel(c_f_body3) \rightarrow \{ . \}$ $Sel(c_f_body3) \rightarrow \{ ; \}$ </p>
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<continue> → continue ;	F(continue) → { continue }	Fol(continue) -> { while, for, return, switch, break, continue, if, take, ID, ++, --, }, break }	Sel(continue) -> { continue }
<break> → break ;	F(break) → { break }	Fol(break) -> { while, for, return, switch, break, continue, if, take, ID, ++, --, }, break }	Sel(break) -> { break }
<return> → return <return1>; <return1> → True <return2> <return1> → False <return2> <return1> → <exp> <return2> <return1> → <dec> <return2> <return2> → , <return1> <return2> → E	F(return) → { return } F(return1) → { True } F(return1) → { False } F(return1) → { present, super, ID, const, (, not } F(return1) → { take } F(return2) → { , } F(return2) → { E }	Fol(return) -> { while, for, return, switch, break, continue, if, take, ID, ++, --, }, break } Fol(return1) -> { while, for, return, switch, break, continue, if, take, ID, ++, --, }, break } Fol(return2) -> {while, for, return, switch, break, continue, if, take, ID, ++, --, }, break}	Sel(return) -> { return } Sel(return1) -> { True } Sel(return1) -> { False } Sel(return1) -> { present, super, ID, const, (, not } Sel(return1) -> { take } Sel(return2) -> { , } Sel(return2) -> { while, for, return, switch, break, continue, if, take, ID, ++, --, }, break }
<parameter> → DT ID <parameter1> <parameter> -> E <parameter1> → ,DT ID <parameter1> <parameter1> → E	F(parameter) → { DT } F(parameter) -> {E} F(parameter1) → { , } F(parameter1) → { E }	Fol(parameter) -> {) } Fol(parameter1) -> {) }	Sel(parameter) -> { DT } Sel(parameter) -> {) } Sel(parameter1) -> { , } Sel(parameter1) -> {) }
<fn_dec> → \$function ID <f_dt1> (<parameter>) {<MST>}	F(fn_dec) → { \$function }	Fol(fn_dec) -> { \$mfunction, \$, own, } }	Sel(fn_dec) -> { \$function }

<enum> → enum ID = {<list>;}	F(enum) → enum	Fol(enum) -> { Fol(defs) }	Sel(enum) -> { enum }
<list> → ID <list1> <list> → E <list1> → , ID<list1> <list1> → E	F(list) → { ID } F(list) → { E } F(list1) → { , } F(list1) → { E }	Fol(list) -> { } } Fol(list1) -> { } }	Sel(list) -> { ID } Sel(list) -> { } } Sel(list1) -> { , } Sel(list1) -> { } }
<fn_call> → ID (<argu>)	F(fn_call) → { ID }		Sel(fn_call) -> { ID }
<if-elif-else> → if (<exp>) {<MST>} <elif> <else> <elif> → elif (<exp>) {<MST>} <elif> <elif> → E <else> → else {<MST>} <else> → E	F(if-elif-else) → { If } F(elif) → { elif } F(elif) → { E } F(else) → { else } F(el) → { E }	Fol(if-elif-else) -> { while, for, return, switch, break, continue, if, take, ID, ++, --, }, break } Fol(elif) -> { else, while, for, return, switch, break, continue, if, take, ID, ++, --, }, break } Fol(else) -> { while, for, return, switch, break, continue, if, take, ID, ++, --, }, break }	Sel(if-elif-else) -> { if } Sel(elif) -> { elif } Sel(elif) -> { else, while, for, return, switch, break, continue, if, take, ID, ++, --, }, break } Sel(else) -> { else } Sel(else) -> { while, for, return, switch, break, continue, if, take, ID, ++, --, }, break }
<switch> → switch (<exp>) {<case> <default>} <case> → case <const> {<MST>}<break><case> E <default> → default {<MST>}	F(switch) → { switch } F(case) → { case } F(case) -> { E }	Fol(switch) -> { while, for, return, switch, break, continue, if, take, ID, ++, --, }, break } Fol(case) -> { default } Fol(default) -> { } }	Sel(switch) -> { switch } Sel(case) -> { case } Sel(case) -> { default } Sel(default) -> { default }

	$F(\text{default}) \rightarrow \{ \text{default} \}$		