ATQueue:struct

+ ATQItem: Front *

GenType:enum

+ 0: gt_var_declar
+ 1: gt_func_declar
+ 2: gt_assign
+ 3: gt_input
+ 4: gt_print
+ 5: gt_if
+ 6: gt_while
+ 7: gt_call_func
+ 8: gt_return

ATQItem(struct atq_item):struct

+ Next: struct atq_item *
+ GenType: GenType
+ GenValue: GenValue

GenValue:union

+ var_declar_input: VarDeclarInput *
+ func_declar_input: FuncDeclarInput *
+ assign_input: AssignInput *
+ input_input: InputInput *
+ print_input: PrintInput *
+ if_input: IfInput *
+ while_input: WhileInput *
+ call_func_input: CallFuncInput *
+ return_input: ReturnInput *

VarDeclarInput:struct

+ id: Tsymtab_item *
+ type: Tvariable_type
+ expr: ATLeaf *

FuncDeclarInput:struct

+ sym_item: Tsymbtab_item *
+ queue: ATQueue *

WhileInput:struct

+ cond_expr: ATLeaf *
+ queue: ATQueue *

AssignInput:struct

+ expr: ATLeaf *
+ id: Tsymtab_item *

CallFuncInput:struct

+ id: Tsymtab_item *
+ sym_item: Tsymtab_item *
+ param: eQueue *

InputInput:struct

+ id: Tsymtab_item *

PrintInput: struct

+ exprs: eQueue *

ReturnInput:struct

+ expr: ATLeaf *

IfInput: struct

+ cond_expr: ATLeaf *
+ true_queue: ATQueue *
+ false_queue: ATQueue *