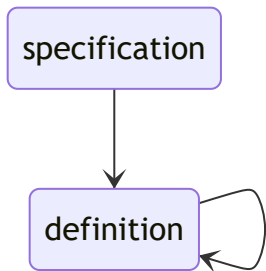
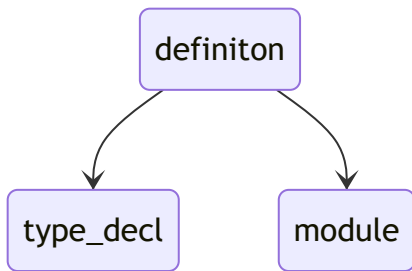


语法规则每一句对应的抽象语法树

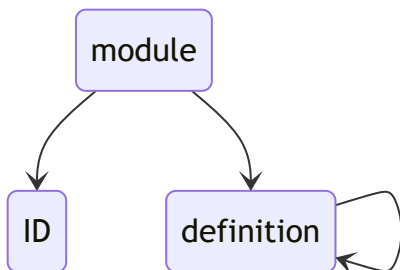
1. specification -> definition { definition }



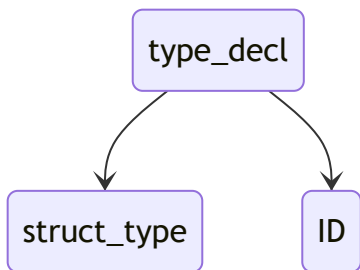
2. definiton -> type_decl “;” | module “;”



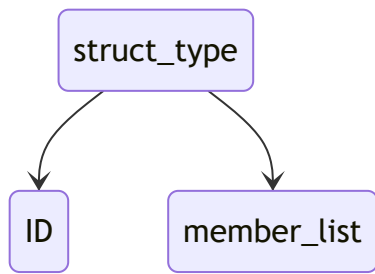
3. module -> “module” ID “{” definition { definition } “}”



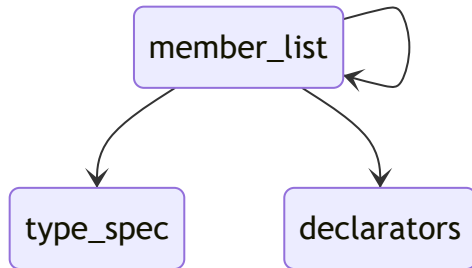
4. type_decl -> struct_type | “struct” ID



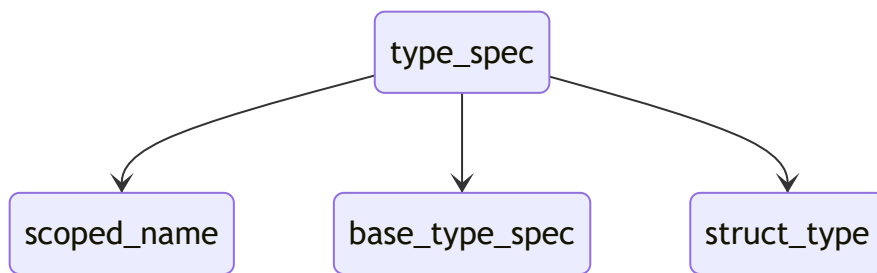
5. struct_type -> “struct” ID “{” member_list “}”



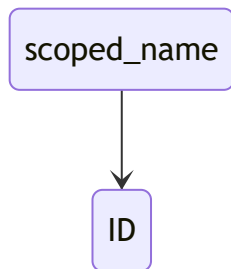
6. `member_list` -> { type_spec declarators “,” }



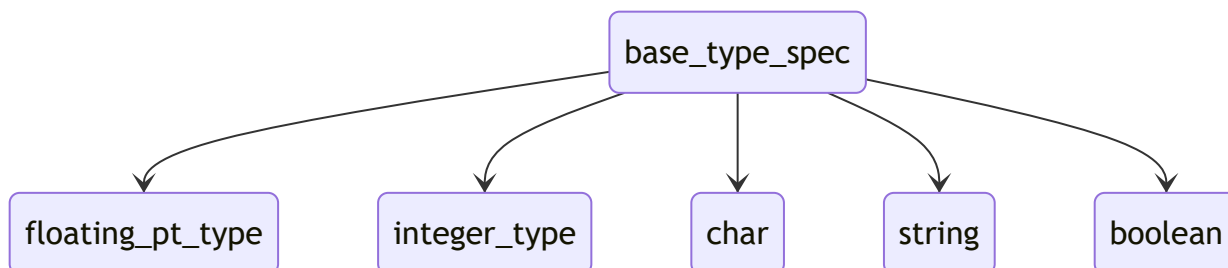
7. `type_spec` -> `scoped_name` | `base_type_spec` | `struct_type`



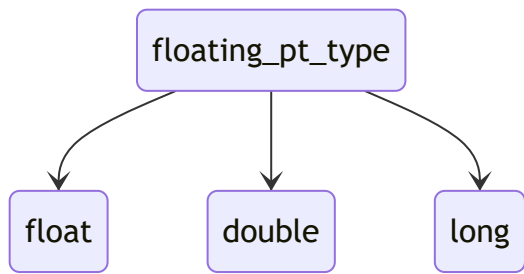
8. `scoped_name` -> [“::”] ID {“::” ID }



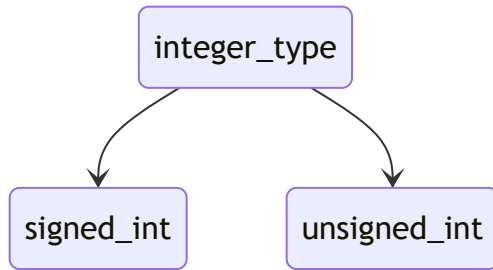
9. `base_type_spec` -> `floating_pt_type` | `integer_type` | “char” | “string” | “boolean”



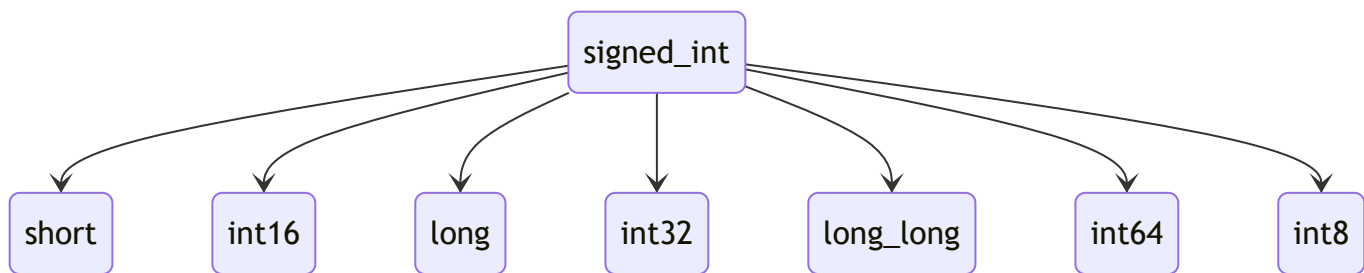
10. `floating_pt_type` -> “float” | “double” | “long double”



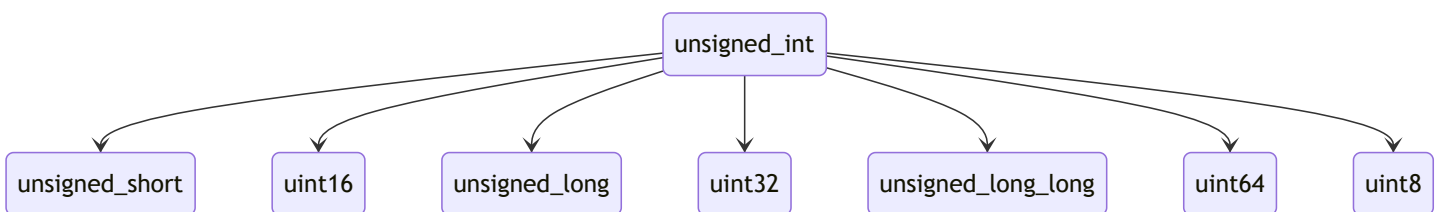
11.integer_type -> signed_int | unsigned_int



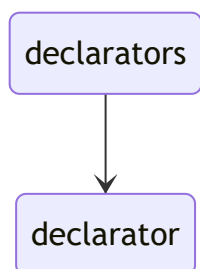
12.signed_int->("short"|"int16")|("long"|"int32")|("long" "long"|"int64")|"int8"



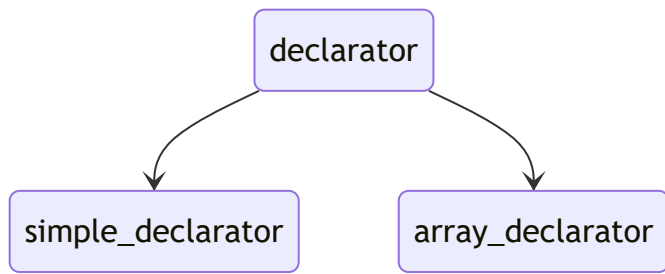
13.unsigned_int -> ("unsigned" "short" | "uint16")| ("unsigned" "long" | "uint32")| ("unsigned" "long" "long" | "uint64")| "uint8"



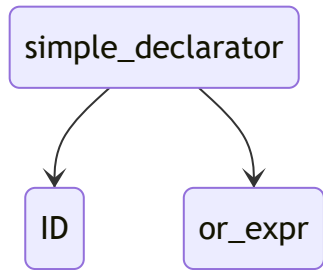
14.declarators -> declarator {"," declarator }



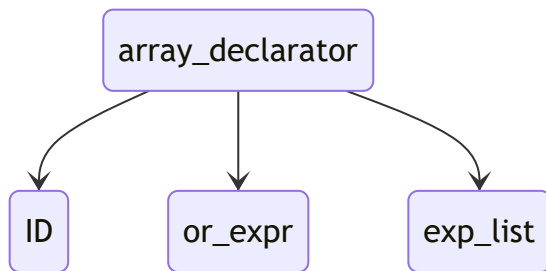
15.declarator -> simple_declarator | array_declarator



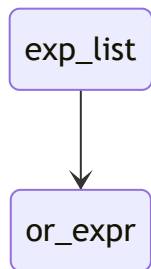
16.simple_declarator -> ID [= or_expr]



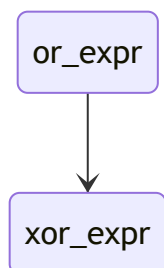
17.array_declarator -> ID "[" or_expr "]" [= exp_list]



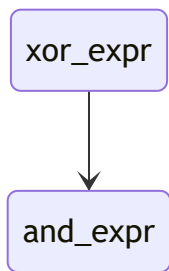
18.exp_list -> "[" or_expr { "," or_expr } "]"



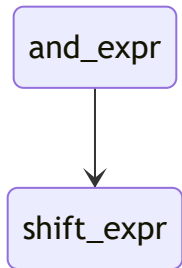
19.or_expr -> xor_expr {"|" xor_expr }



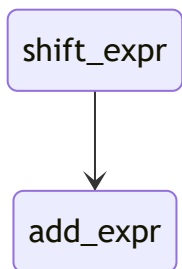
20.xor_expr -> and_expr {"^" and_expr }



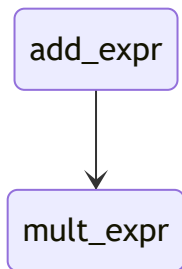
21.and_expr -> shift_expr { "&" shift_expr }



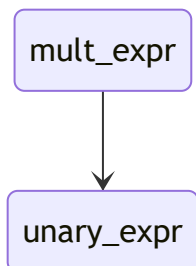
22.shift_expr -> add_expr { (">>" | "<<") add_expr }



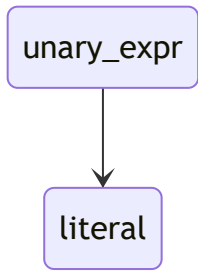
23.add_expr -> mult_expr { ("+" | "-") mult_expr }



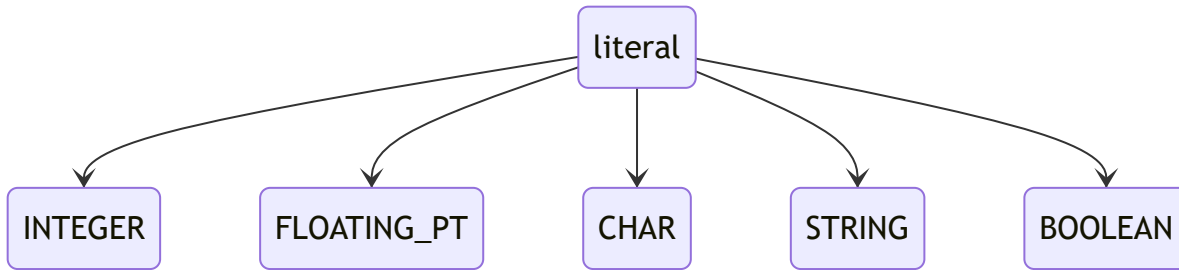
24.mult_expr -> unary_expr { ("*" | "/" | "%") unary_expr }



25.unary_expr -> ["-" | "+" | "~"] literal



26.literal -> INTEGER | FLOATING_PT | CHAR | STRING | BOOLEAN



全部的整合

