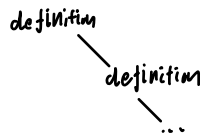


1. $specification \rightarrow definition \{ definition \}$

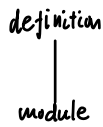


(option)表示 | 式 2 2 中如可出或不出

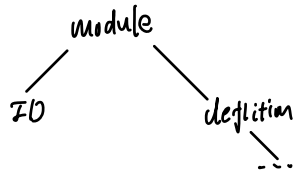
2. $definition \rightarrow type_decl ";"$



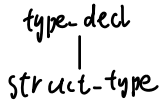
$definition \rightarrow module ";"$



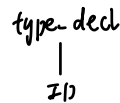
3. $module \rightarrow "module" ID "{" definition \{ definition \} "}"$



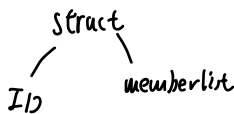
4. $type_decl \rightarrow struct_type$



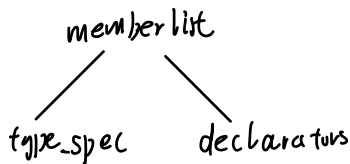
$type_decl \rightarrow struct ID$



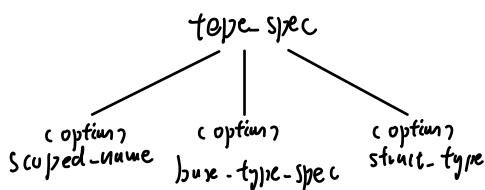
5. $struct_type \rightarrow "struct" ID "{" member_list "}"$



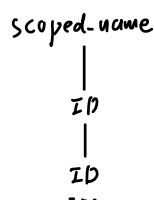
6. $memberlist \rightarrow \{ type_spec declarators ";" \}$



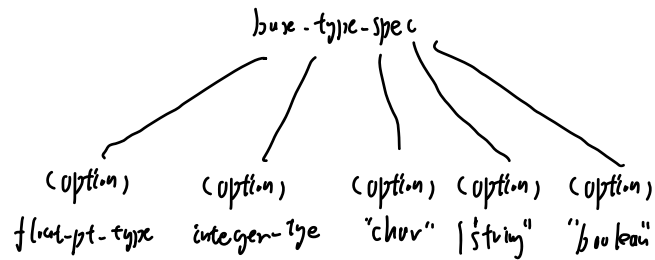
7. $type_spec \rightarrow scoped_name | base_type_spec | struct_type$



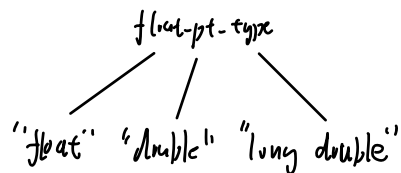
8. $scoped_name \rightarrow ["::"] ID \{ "::" ID \}$



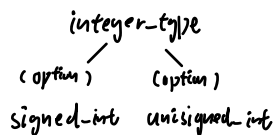
9. $\text{base-type-spec} \rightarrow \text{float-pt-type} \mid \text{integer-type} \mid \text{"char"} \mid \text{"string"} \mid \text{"boolean"}$



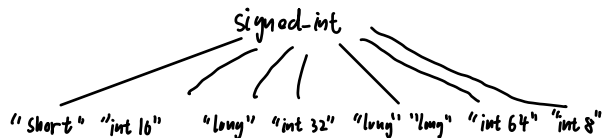
10. $\text{float-pt-type} \rightarrow \text{"float"} \mid \text{"double"} \mid \text{"long double"}$



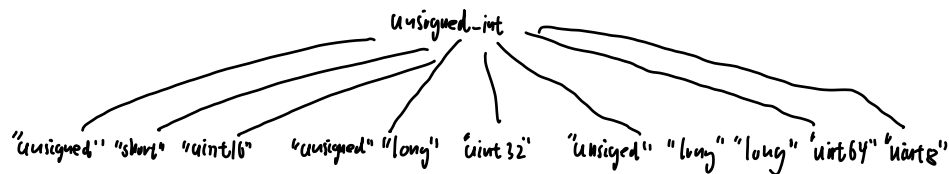
11. $\text{integer-type} \rightarrow \text{signed-int} \mid \text{unsigned-int}$



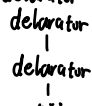
11. $\text{signed-int} \rightarrow (\text{"short"} \mid \text{"int 16"}) \mid (\text{"long"} \mid \text{"int 32"}) \mid (\text{"long"} \mid \text{"long"} \mid \text{"int 64"}) \mid \text{"int 8"}$



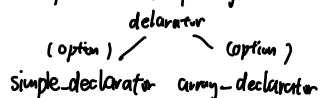
12. $\text{unsigned-int} \rightarrow (\text{"unsigned"} \mid \text{"short"} \mid \text{"uint 16"}) \mid (\text{"unsigned"} \mid \text{"long"}) \mid (\text{"uint 32"}) \mid (\text{"unsigned"} \mid \text{"long"} \mid \text{"long"} \mid \text{"uint 64"}) \mid \text{"uint 8"}$



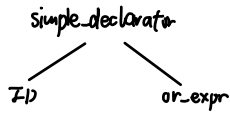
13. $\text{declarators} \rightarrow \text{declarator} \{ \text{"", declarator} \}$



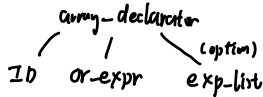
14. $\text{declarator} \rightarrow \text{simple_declarator} \mid \text{array_declarator}$



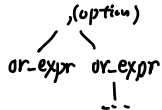
15. simple_declarator \rightarrow ID ["=" or_expr]



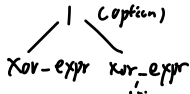
16. array_declarator \rightarrow ID ["[" or_expr "]" ["=" exp-list]]



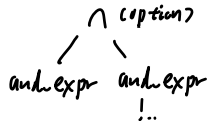
17. exp-list \rightarrow ["[" or_expr {"," or_expr} "]"]



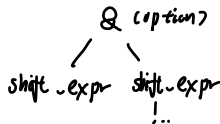
18. or_expr \rightarrow xor_expr { "|" xor_expr }



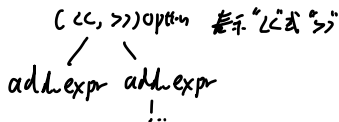
19. xor_expr \rightarrow and_expr { "^" and_expr }



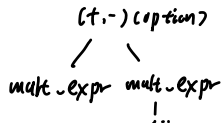
20. and_expr \rightarrow shift_expr { "&" shift_expr }



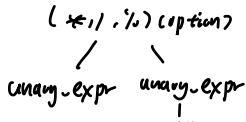
21. shift_expr \rightarrow add_expr { "<" ">" "<=" ">=" } add_expr



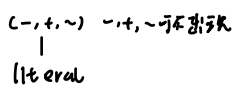
22. add_expr \rightarrow mult_expr { "+" "-" } mult_expr



23. mult_expr \rightarrow unary_expr { "*" "/" "%" } unary_expr



23. unary_expr \rightarrow ["-" "+" "~"] literal



24. literal \rightarrow INTEGER | FLOATING-PT | CHAR | STRING | BOOLEAN

