Compilers CFG

- 1. ProgramStart ProgramUnit ProgramStart2
- 2. ProgramStart2 ProgramUnit ProgramStart2 | 3
- 3. ProgramUnit Header Block Footer
- 4. Header program identifier delimiter
- 5. Block implicit none delimiter TypeDecls Statements
- 6. Footer end program identifier delimiter
- 7. TypeDecls TypeDecl TypeDecls2 | 3
- 8. TypeDecls2 TypeDecl TypeDecls2 | 3
- 9. TypeDecl DataType TypeDecl2
- 10. TypeDecl2 :: IdentifierList delimiter | , parameter :: NamedConstant delimiter
- 11. DataType
 ☐ integer | real | complex | logical | CharacterDType
- 12. NamedConstant identifier = LogicalOrConst
- 13. CharacterDType → character CharacterDType2
- 14. CharacterDType2 → (len = IdorConst) | 3
- 15. Statements Statement Statements2
- 16. Statements2 Statement Statements2 | 3
- 17. Statement Assignment | Print | Read | IF | DoLoop | 3
- 18. Assignment identifier = Relations delimiter
- 19. Relations | IdorConst Relation | LogicalVal
- 20. Relation ArithmeticOp IdorConst Relation2 | 3
- 21. Relation2 ArithmeticOp IdorConst Relation2 | 3
- 22. Print print PrintCall delimiter
- 23. PrintCall , PrintList | 3
- 24. PrintList PrintHolder PrintList2
- 25. PrintList2], PrintHolder PrintList2 | 3

Compilers CFG 1

- 26. PrintHolder | identifier | constant | string | 3
- 27. Read Tead *, IdentifierList delimiter
- 28. IF TIFStart IF2
- 29. IF2 end if delimiter | else delimiter Statements end if delimiter
- 30. IFStart if Conditional then delimiter Statements
- 31. DoLoop DoStart Statements end do delimiter
- 32. DoStart do identifier = constant , IdorConst Step delimiter
- 33. Step , IdorConst | 3
- 34. ArithmeticOp → * | / | + | -
- 35. IdentifierList identifier IdentifierList2
- 36. IdentifierList2], identifier IdentifierList2 | 3
- 37. Conditional IdorConst RelationalOp IdorConst | identifier | LogicalVal
- 39. RelationalOp

 → > | < | <= | >= | /=
- 40. LogicalOrIdentifier DegicalVal | IdentifierList
- 41. LogicalOrConst LogicalVal | constant
- 42. LogicalVal True | false

Compilers CFG 2