Context free grammar

-Class🡪 Modifier class identifier {Attribute}

-Modifier🡪 public | static | private

-Attribute🡪 Function Attribute |Parameter Attribute |∑

- Parameter 🡪Declare

-Function🡪 Modifier ReturnType identifier (Declare) {Statement}

-ReturnType🡪 Datatype | void

-Declare🡪 Datatype Vars | ∑

-Datatype🡪 int | float | double |char | Boolean |short |long |byte

-Array 🡪identifier [A]; | identifier [] {Exp};

-A🡪 identifier | number

-Exp🡪 Letter, Exp | Letter

-Letter🡪 Number | identifier

- Assign🡪 Arithmetic Assign | A Assign | A

-Arithmetic🡪 + | - | \* | % | /

-Statement🡪 Input | Output | Conditions | Loops | Declare

-Input🡪 cin >> ReadVar;

- ReadVar 🡪identifier | identifier >> ReadVar

- Output🡪 cout << OutVar;

-If🡪 if (logCompare) {stmts} l

-whileloop🡪 while (compare){Statement}

-do\_whileloop 🡪 do{ Statement}while(compare);

-Compare🡪 Exp Op Exp

-Id\_num🡪 identifier | number