Syntax Diagrams

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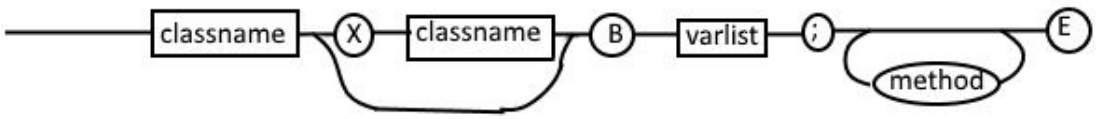
Assignment 1

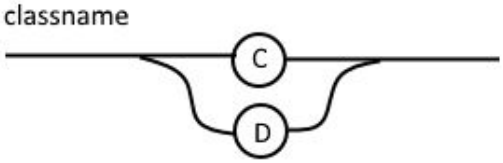
<javaclass> ::= <classname> [X <classname>] B <varlist>; {<method>} E

javaclass



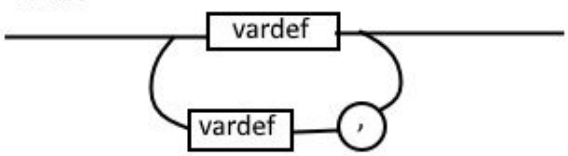
<classname> ::= C|D

classname



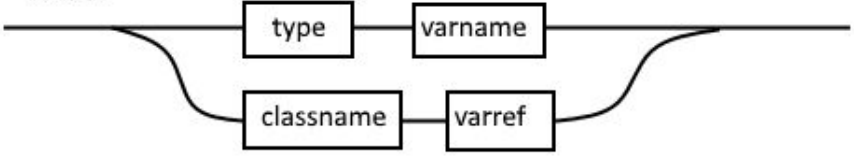
<varlist> ::= <vardef> {, <vardef>}

varlist



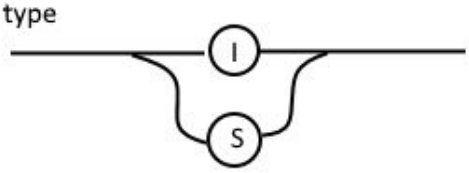
<vardef> ::= <type> <varname> | <classname> <varref>

vardef



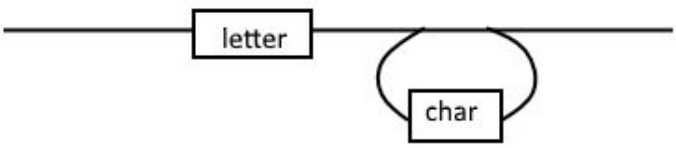
<type> ::= I|S

type

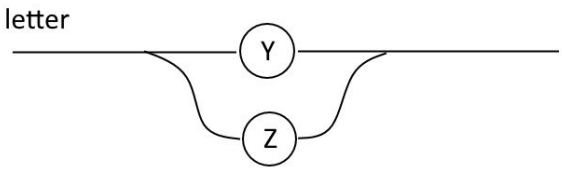


<varname> ::= <letter> {<char>}

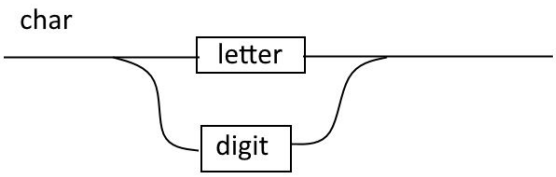
varname



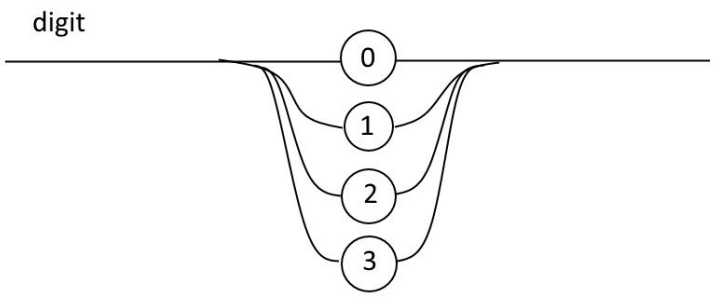
<letter> ::= Y|Z



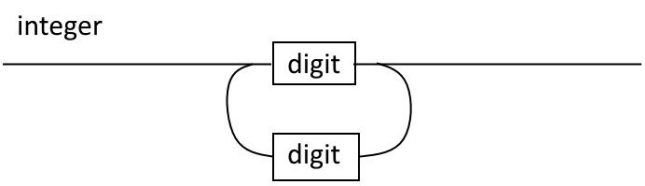
<char> ::= <letter> | <digit>



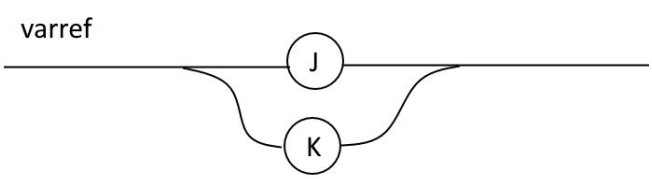
<digit> ::= 0|1|2|3



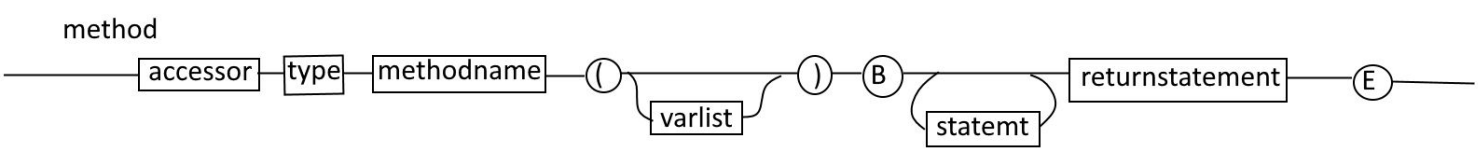
<integer> ::= <digit> {<digit>}



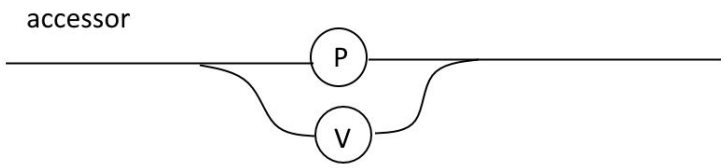
<varref> ::= J|K



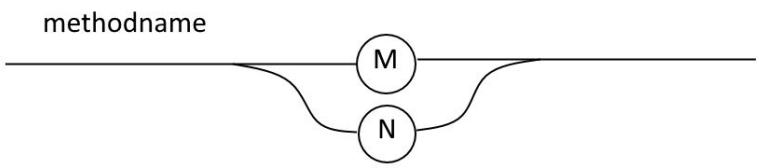
<method> ::= <accessor> <type> <methodname> ([<varlist>]) B {<statemt>} <returnstatemt> E



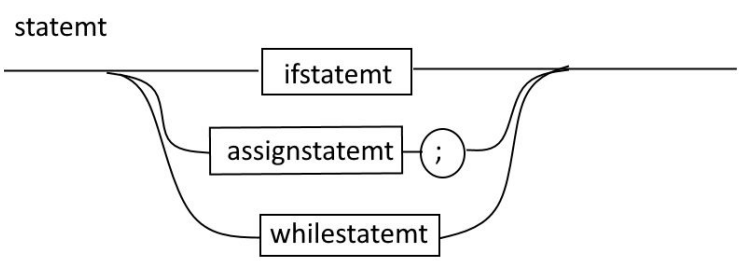
<accessor> ::= P|V



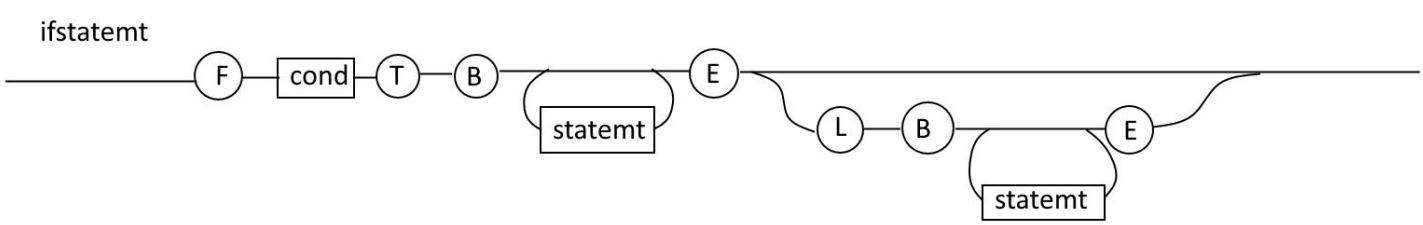
<methodname> ::= M|N



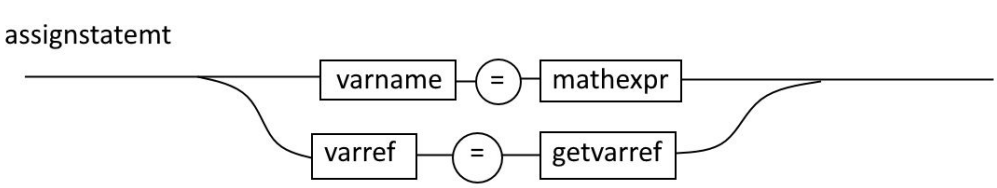
<statemt> ::= <ifstatemt> | <assignstatemt>;|<whilestatemt>



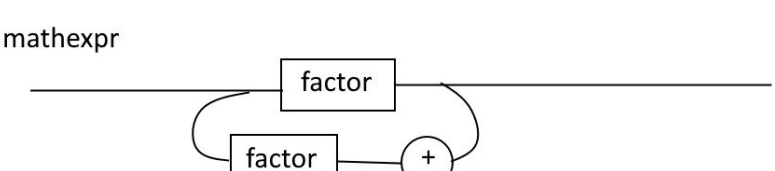
<ifstatemt> ::= F <cond> T B {<statemt>} E [L B {<statemt>} E]



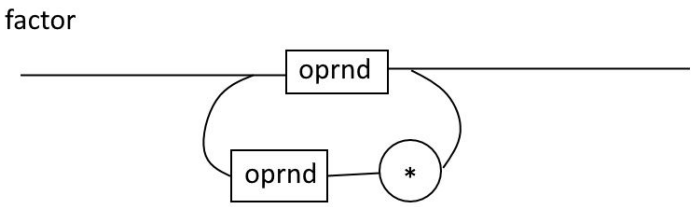
<assignstatemt> ::= <varname> = <mathexpr> | <varref> = <getvarref>



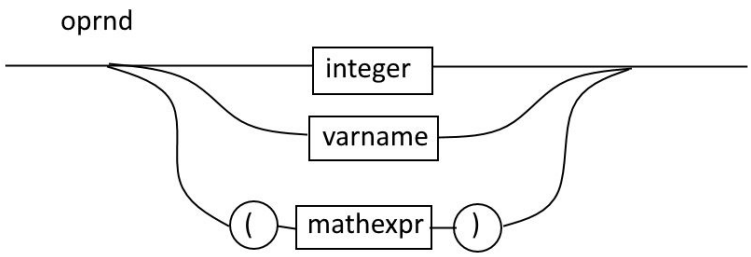
<mathexpr> ::= <factor> {+ factor}



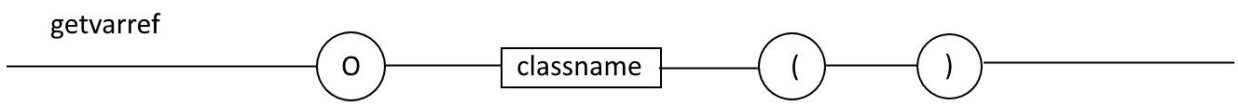
<factor> ::= <oprnd> {* oprnd}



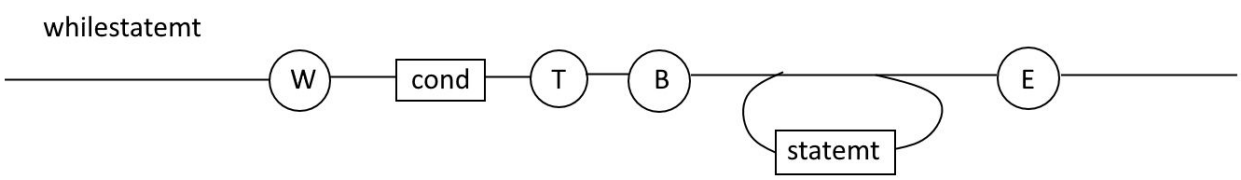
<oprnd> ::= <integer> | <varname> | (<mathexpr>)



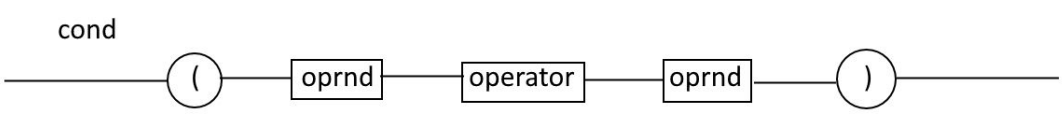
<getvarref> ::= O <classname>()



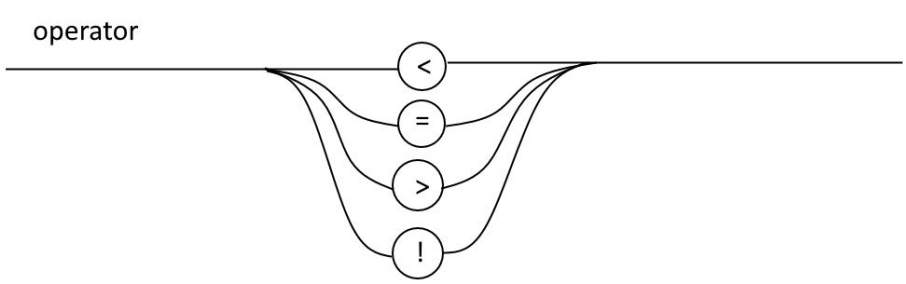
<whilestatemt> ::= W <cond> T B {<statemt>} E



<cond> ::= (<oprnd> <operator> <oprnd>)



<operator> ::= < | = | > | !



<returnstatemt> ::= R <varname>;