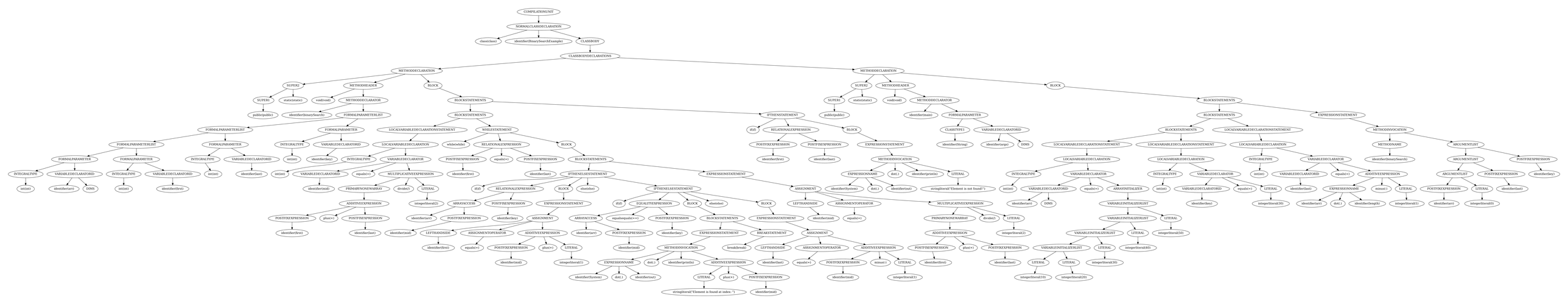
COMPILATIONUNIT
NORMALCLASSDECLARATION
class(class)
identifier(BinarySearchExample)
CLASSBODY
CLASSBODYDECLARATIONS
METHODDECLARATION
SUPER2
SUPER1
public(public)
METHODHEADER
static(static)
void(void)
METHODDECLARATOR
identifier(binarySearch)
FORMALPARAMETERLIST
FORMALPARAMETERLIST
FORMALPARAMETERLIST
FORMALPARAMETER
INTEGRALTYPE
int(int)
VARIABLEDECLARATORID
identifier(first)
FORMALPARAMETER
INTEGRALTYPE
int(int)
VARIABLEDECLARATORID
identifier(last)
FORMALPARAMETER
INTEGRALTYPE
int(int)
VARIABLEDECLARATORID
identifier(key)
BLOCK
BLOCKSTATEMENTS
BLOCKSTATEMENTS
LOCALVARIABLEDECLARATIONSTATEMENT
LOCALVARIABLEDECLARATION
INTEGRALTYPE
int(int)
VARIABLEDECLARATOR
VARIABLEDECLARATORID
identifier(mid)
equals(=)
MULTIPLICATIVEEXPRESSION
PRIMARYNONEWARRAY
ADDITIVEEXPRESSION
POSTFIXEXPRESSION
identifier(first)
plus(+)
POSTFIXEXPRESSION
identifier(last)
divide(/)
LITERAL
integerliteral(2)
WHILESTATEMENT
while(while)
RELATIONALEXPRESSION
POSTFIXEXPRESSION
identifier(first)
equals(=)
POSTFIXEXPRESSION
identifier(last)
BLOCK
BLOCKSTATEMENTS
identifier(last)
IFTHENELSESTATEMENT
if(if)
RELATIONALEXPRESSION
ARRAYACCESS
identifier(arr)
POSTFIXEXPRESSION
identifier(mid)
POSTFIXEXPRESSION
identifier(key)
BLOCK
ASSIGNMENT
LEFTHANDSIDE
identifier(first)
ASSIGNMENTOPERATOR
equals(=)
ADDITIVEEXPRESSION
POSTFIXEXPRESSION
identifier(mid)
plus(+)
LITERAL
integerliteral(1)
ELSE(else)
IFTHENELSESTATEMENT
if(if)
EQUALITYEXPRESSION
ARRAYACCESS
identifier(arr)
POSTFIXEXPRESSION
identifier(mid)
equals(==)
POSTFIXEXPRESSION
identifier(key)
BLOCK
BLOCKSTATEMENTS
EXPRESSIONSTATEMENT
METHODINVOCATION
EXPRESSIONNAME
identifier(System)
dot(.)
identifier(out)
identifier(println)
ADDITIVEEXPRESSION
LITERAL
stringliteral("Element is found at index: ")
plus(+)
POSTFIXEXPRESSION
identifier(mid)
BREAKSTATEMENT
break(break)
ELSE(else)
BLOCK
EXPRESSIONSTATEMENT
ASSIGNMENT
LEFTHANDSIDE
identifier(last)
ASSIGNMENTOPERATOR
equals(=)
ADDITIVEEXPRESSION
POSTFIXEXPRESSION
identifier(mid)
minus(-)
LITERAL
integerliteral(1)
EXPRESSIONSTATEMENT
ASSIGNMENT
LEFTHANDSIDE
identifier(mid)
ASSIGNMENTOPERATOR
equals(=)
MULTIPLICATIVEEXPRESSION
PRIMARYNONEWARRAY
ADDITIVEEXPRESSION
POSTFIXEXPRESSION
identifier(first)
plus(+)
POSTFIXEXPRESSION
identifier(last)
divide(/)
LITERAL
integerliteral(2)
METHODDECLARATION
SUPER2
SUPER1
public(public)
METHODHEADER
static(static)
void(void)
METHODDECLARATOR
identifier(main)
FORMALPARAMETER
CLASSTYPE(1)
identifier(String)
VARIABLEDECLARATORID
identifier(args)
DIMS
BLOCK
BLOCKSTATEMENTS
BLOCKSTATEMENTS
LOCALVARIABLEDECLARATIONSTATEMENT
LOCALVARIABLEDECLARATION
INTEGRALTYPE
int(int)
VARIABLEDECLARATOR
VARIABLEDECLARATORID
identifier(arr)
equals(=)
ARRAYINITIALIZER
VARIABLEINITIALIZERLIST
VARIABLEINITIALIZERLIST
VARIABLEINITIALIZERLIST
LITERAL
integerliteral(10)
LITERAL
integerliteral(20)
LITERAL
integerliteral(40)
LITERAL
integerliteral(30)
LITERAL
integerliteral(50)
DIMS
LOCALVARIABLEDECLARATIONSTATEMENT
LOCALVARIABLEDECLARATION
INTEGRALTYPE
int(int)
VARIABLEDECLARATOR
VARIABLEDECLARATORID
identifier(key)
equals(=)
LITERAL
integerliteral(30)
LOCALVARIABLEDECLARATIONSTATEMENT
LOCALVARIABLEDECLARATION
INTEGRALTYPE
int(int)
VARIABLEDECLARATOR
VARIABLEDECLARATORID
identifier(last)
equals(=)
ADDITIVEEXPRESSION
EXPRESSIONNAME
identifier(arr)
dot(.)
identifier(length)
minus(-)
LITERAL
integerliteral(1)
EXPRESSIONSTATEMENT
METHODINVOCATION
METHODNAME
identifier(binarySearch)
ARGUMENTLIST
ARGUMENTLIST
ARGUMENTLIST
POSTFIXEXPRESSION
identifier(arr)
LITERAL
integerliteral(0)
POSTFIXEXPRESSION
identifier(last)
POSTFIXEXPRESSION
identifier(key)