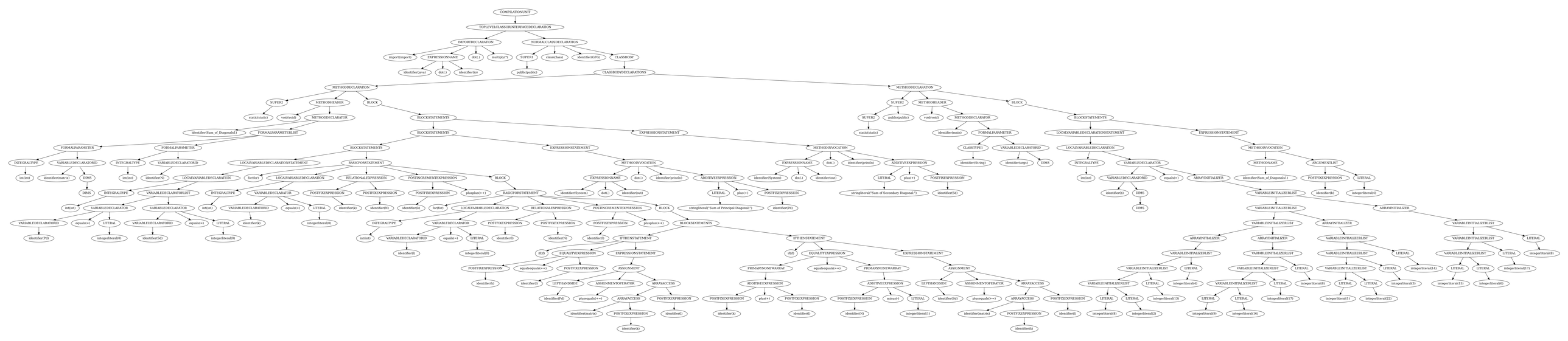
COMPILATIONUNIT
TOPLEVELCLASSORINTERFACEDECLARATION
IMPORTDECLARATION
import(import)
EXPRESSIONNAME
identifier(java)
dot(.)
identifier(io)
dot(.)
multiply(*)
NORMALCLASSDECLARATION
SUPER1
public(public)
class(class)
identifier(GFG)
CLASSBODY
CLASSBODYDECLARATIONS
METHODDECLARATION
SUPER2
static(static)
METHODHEADER
void(void)
METHODDECLARATOR
identifier(Sum_of_Diagonals1)
FORMALPARAMETERLIST
FORMALPARAMETER
INTEGRALTYPE
int(int)
VARIABLEDECLARATORID
identifier(matrix)
DIMS
[
]
FORMALPARAMETER
INTEGRALTYPE
int(int)
VARIABLEDECLARATORID
identifier(N)
BLOCK
BLOCKSTATEMENTS
BLOCKSTATEMENTS
BLOCKSTATEMENTS
LOCALVARIABLEDECLARATIONSTATEMENT
LOCALVARIABLEDECLARATION
INTEGRALTYPE
int(int)
VARIABLEDECLARATORLIST
VARIABLEDECLARATOR
VARIABLEDECLARATORID
identifier(P4)
equals(=)
LITERAL
integerliteral(0)
VARIABLEDECLARATOR
VARIABLEDECLARATORID
identifier(Sd)
equals(=)
LITERAL
integerliteral(0)
BASICFORSTATEMENT
for(for)
LOCALVARIABLEDECLARATION
INTEGRALTYPE
int(int)
VARIABLEDECLARATOR
VARIABLEDECLARATORID
identifier(i)
equals(=)
LITERAL
integerliteral(0)
RELATIONALEXPRESSION
POSTFIXEXPRESSION
identifier(i)
less(<)
POSTFIXEXPRESSION
identifier(N)
POSTINCREMENTEXPRESSION
POSTFIXEXPRESSION
identifier(i)
plusplus(++)
BLOCK
BASICFORSTATEMENT
for(for)
LOCALVARIABLEDECLARATION
INTEGRALTYPE
int(int)
VARIABLEDECLARATOR
VARIABLEDECLARATORID
identifier(j)
equals(=)
LITERAL
integerliteral(0)
RELATIONALEXPRESSION
POSTFIXEXPRESSION
identifier(j)
less(<)
POSTFIXEXPRESSION
identifier(N)
POSTINCREMENTEXPRESSION
POSTFIXEXPRESSION
identifier(j)
plusplus(++)
BLOCK
BLOCKSTATEMENTS
IFTHENSTATEMENT
if(if)
EQUALITYEXPRESSION
POSTFIXEXPRESSION
identifier(i)
equalsequals(==)
POSTFIXEXPRESSION
identifier(j)
EXPRESSIONSTATEMENT
ASSIGNMENT
LEFTHANDSIDE
identifier(P4)
ASSIGNMENTOPERATOR
plusequals(+=)
ARRAYACCESS
identifier(matrix)
ARRAYACCESS
POSTFIXEXPRESSION
identifier(i)
POSTFIXEXPRESSION
identifier(j)
IFTHENSTATEMENT
if(if)
EQUALITYEXPRESSION
PRIMARYNONEWARRAY
ADDITIVEEXPRESSION
POSTFIXEXPRESSION
identifier(i)
plus(+)
POSTFIXEXPRESSION
identifier(j)
equalsequals(==)
PRIMARYNONEWARRAY
ADDITIVEEXPRESSION
POSTFIXEXPRESSION
identifier(N)
minus(-)
LITERAL
integerliteral(1)
EXPRESSIONSTATEMENT
ASSIGNMENT
LEFTHANDSIDE
identifier(Sd)
ASSIGNMENTOPERATOR
plusequals(+=)
ARRAYACCESS
identifier(matrix)
ARRAYACCESS
POSTFIXEXPRESSION
identifier(i)
POSTFIXEXPRESSION
identifier(k)
EXPRESSIONSTATEMENT
METHODINVOCATION
EXPRESSIONNAME
identifier(System)
dot(.)
identifier(out)
dot(.)
identifier(println)
ADDITIVEEXPRESSION
LITERAL
stringliteral("Sum of Principal Diagonal:")
plus(+)
POSTFIXEXPRESSION
identifier(Pd)
METHODINVOCATION
EXPRESSIONNAME
identifier(System)
dot(.)
identifier(out)
dot(.)
identifier(println)
ADDITIVEEXPRESSION
LITERAL
stringliteral("Sum of Secondary Diagonal:")
plus(+)
POSTFIXEXPRESSION
identifier(Sd)
METHODDECLARATION
SUPER2
public(public)
METHODHEADER
void(void)
METHODDECLARATOR
identifier(main)
FORMALPARAMETER
CLASSTYPE1
identifier(String)
VARIABLEDECLARATORID
identifier(args)
DIMS
[
]
BLOCK
BLOCKSTATEMENTS
LOCALVARIABLEDECLARATIONSTATEMENT
LOCALVARIABLEDECLARATION
INTEGRALTYPE
int(int)
VARIABLEDECLARATOR
VARIABLEDECLARATORID
identifier(b)
DIMS
[
]
equals(=)
ARRAYINITIALIZER
{
VARIABLEINITIALIZERLIST
ARRAYINITIALIZER
{
VARIABLEINITIALIZERLIST
ARRAYINITIALIZER
{
VARIABLEINITIALIZERLIST
LITERAL
integerliteral(4)
}
ARRAYINITIALIZER
{
VARIABLEINITIALIZERLIST
VARIABLEINITIALIZERLIST
LITERAL
integerliteral(13)
LITERAL
integerliteral(8)
LITERAL
integerliteral(2)
}
}
ARRAYINITIALIZER
{
VARIABLEINITIALIZERLIST
VARIABLEINITIALIZERLIST
LITERAL
integerliteral(9)
LITERAL
integerliteral(17)
LITERAL
integerliteral(16)
}
}
ARRAYINITIALIZER
{
VARIABLEINITIALIZERLIST
VARIABLEINITIALIZERLIST
LITERAL
integerliteral(8)
ARRAYINITIALIZER
{
VARIABLEINITIALIZERLIST
VARIABLEINITIALIZERLIST
LITERAL
integerliteral(1)
LITERAL
integerliteral(22)
LITERAL
integerliteral(3)
}
}
ARRAYINITIALIZER
{
VARIABLEINITIALIZERLIST
VARIABLEINITIALIZERLIST
VARIABLEINITIALIZERLIST
LITERAL
integerliteral(15)
LITERAL
integerliteral(6)
LITERAL
integerliteral(17)
LITERAL
integerliteral(8)
LITERAL
integerliteral(14)
}
}
EXPRESSIONSTATEMENT
METHODINVOCATION
METHODNAME
identifier(Sum_of_Diagonals1)
ARGUMENTLIST
POSTFIXEXPRESSION
identifier(b)
LITERAL
integerliteral(4)