### + ASTParser

- + K EXPRESSION: int
- + K COMPILATION UNIT: int
- + K CLASS BODY DECLARATIONS : int
- + K STATEMENTS: int
- +createAST(IProgressMonitor: monitor): ASTNode
- + newParser(level : int) : ASTParser
- + setKind(kind : int)
- + setSource(source : char[])
- + setUnitName(UnitName: String)

## + NodeFinder

- + getCoveredNode() : ASTNode
- + perform(root : ASTNode, start : int, length : int) : ASTNode

#### + ASTParser

- + K CLASS\_BODY\_DECLARATIONS : int
- + K\_COMPILATION\_UNIT: int
- + K\_EXPRESSION : int
- + K STATEMENTS : int
- + createAST(monitor : IProgressMonitor) : ASTNode
- + newParser(level : int) : ASTParser

### + AST

- + JLS2 : int
- + JLS3 : int
- + JLS4 : int
- + JLS8 : int
- + createInstance(level : int) : ASTNode
- + newAST(level : int) : AST

### + ASTNode

- + ARRAY\_ACCESS : int
- + CHARACTER LITERAL : int
- + IMPORT DECLARATION : int
- + METHOD DECLARATION : int
- + getAST(): AST
- + accept(visitor : ASTVisitor)
- + delete()
- getParent(): ASTNode getRoot(): ASTNode + properties(): Map + getLength(): int + toString(): String

#### + ASTVisitor

- + visit(node) : boolean
- + ASTVisitor()

#### + Initializer

- + MODIFIERS PROPERTY: SimplePropertyDescriptor
- + BODY\_PROPERTY : ChildPropertyDescriptor
- + getBody(): Block
- + setBody(body : Block)

# + StructuralPropertyDescriptor

- + isChild : boolean
- + isChildList : boolean
- + getID(): String
- + getNodeClass() : Class
- + isChildListProperty(): boolean
- + isChildProperty(): boolean
- + isSimpleProperty(): boolean
- + toString() : String

# ChildPropertyDescriptor

- + cycleRisk() : boolean
- + getChildType() : Class
- + isMandatory() : boolean