# + 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 STATEMENTS : int
- + newParser(level : int) : ASTParser

# + AST

- + .II S2 · int
- + JLS3 : int
- + JI S4 : int
- + JLS8 : int
- + createInstance(level : int) : ASTNode

+ StructuralPropertyDescriptor

- + method(type): type
- + method(type): type

+ isChild : boolean

+ getID(): String

+ toString(): String

+ isChildList : boolean

+ getNodeClass() : Class

+ isChildListProperty(): boolean

+ isChildProperty(): boolean + isSimpleProperty(): boolean

# + 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 + aetLenath() : int
- + toString(): String

# + ASTVisitor

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

#### + Initializer

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

- + K CLASS BODY DECLARATIONS : int
- + K COMPILATION UNIT: int
- + K EXPRESSION : int
- + createAST(monitor : IProgressMonitor) : ASTNode

# ChildPropertyDescriptor

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