ReductionStrategy NORMAL_ORDER APPLICATIVE ORDER CALL BY NAME if (hasReduced) { CALL_BY_VALUE result = node: } else { if (node.getFirst().isAbstraction()) { LambdaAbstraction abstraction = ((LambdaAbstraction) node.getFirst()); switch (strategy) { BetaReductionVisitor case NORMAL ORDER: { result = abstraction.getInside().accept(new ApplicationVisitor(abstraction.getColor(), node.getSecond())); -strategy: ReductionStrategy LambdaTermVisitor -result: LambdaTerm = null break: -hasReduced: boolean = false // ... +BetaReductionVisitor(strategy: ReductionStrategy) hasReduced = true: +visit(node: LambdaApplication) } else { +visit(node: LambdaAbstraction) node.setFirst(node.getFirst().accept(this)); +visit(node: LambdaVariable)(node.setSecond(node.getSecond().accept(this)); +getResult(): LambdaTerm if (!hasReduced && strategy != CALL_BY_NAME && strategy != CALL_BY_VALUE) { node.setInside(node.getInside().accept(this)); result = node; result = node: «udes» **ApplicationVisitor** node.setFirst(node.getFirst().accept(this)); -color: Color node.setSecond(node.getSecond().accept(this)); LambdaTermVisitor -replacing: LambdaTerm result = node: -result: LambdaTerm = null +ApplicationVisitor(color: Color, replacing: LambdaTerm) assert(!color.equals(node.getColor())); +visit(node: LambdaApplication) node.setInside(node.getInside().accept(this)); +visit(node: LambdaAbstraction) result = node; +visit(node: LambdaVariable) +getResult(): LambdaTerm result = (color.equals(node.getColor())) ? replacing : node; L

«enumeration»