----------------------------------- search started

JavaPathfinder v7.0 (rev ${version}) - (C) RIACS/NASA Ames Research Center

====================================================== system under test

calc.view.CalculatorView.main()

====================================================== search started: 9/15/14 7:58 PM

ADDED node ( java.lang.Boolean.<init>(Z)V | (0) Dist -1 )

ADDED From node ( java.lang.Boolean.<clinit>()V | (1) Dist -1 )

ADDED node ( java.lang.Object.<init>()V | (4) Dist -1 )

ADDED node ( java.lang.Class.getPrimitiveClass(Ljava/lang/String;)Ljava/lang/Class; | (16) Dist -1 )

ADDED From node ( java.lang.Short.<clinit>()V | (21) Dist -1 )

ADDED node ( java.lang.Class.desiredAssertionStatus()Z | (24) Dist -1 )

ADDED From node ( java.lang.Integer.<clinit>()V | (25) Dist -1 )

ADDED From node ( java.lang.Long.<clinit>()V | (35) Dist -1 )

ADDED From node ( java.lang.Float.<clinit>()V | (39) Dist -1 )

ADDED From node ( java.lang.Double.<clinit>()V | (43) Dist -1 )

ADDED From node ( java.lang.Byte.<clinit>()V | (47) Dist -1 )

ADDED node ( java.lang.String$CaseInsensitiveComparator.<init>(Ljava/lang/String$1;)V | (50) Dist -1 )

ADDED From node ( java.lang.String.<clinit>()V | (51) Dist -1 )

ADDED node ( java.lang.String$CaseInsensitiveComparator.<init>()V | (54) Dist -1 )

ADDED node ( java.lang.Thread$State.<init>(Ljava/lang/String;I)V | (62) Dist -1 )

ADDED From node ( java.lang.Thread$State.<clinit>()V | (63) Dist -1 )

ADDED node ( java.lang.Enum.<init>(Ljava/lang/String;I)V | (66) Dist -1 )

ADDED node ( java.lang.System.createSystemErr()Ljava/io/PrintStream; | (134) Dist -1 )

ADDED From node ( java.lang.System.<clinit>()V | (135) Dist -1 )

ADDED node ( java.util.Properties.<init>()V | (138) Dist -1 )

ADDED node ( java.util.Properties.<init>(Ljava/util/Properties;)V | (142) Dist -1 )

ADDED node ( java.util.Hashtable.<init>()V | (146) Dist -1 )

ADDED node ( java.util.Hashtable.<init>(IF)V | (150) Dist -1 )

ADDED node ( java.util.Dictionary.<init>()V | (154) Dist -1 )

ADDED node ( java.lang.Float.isNaN(F)Z | (166) Dist -1 )

ADDED node ( java.lang.Math.min(FF)F | (174) Dist -1 )

ADDED node ( java.lang.Float.floatToIntBits(F)I | (178) Dist -1 )

ADDED From node ( java.lang.Math.<clinit>()V | (179) Dist -1 )

ADDED node ( java.lang.Double.doubleToLongBits(D)J | (182) Dist -1 )

ADDED node ( java.util.Hashtable.initHashSeedAsNeeded(I)Z | (186) Dist -1 )

ADDED node ( sun.misc.VM.isBooted()Z | (192) Dist -1 )

ADDED From node ( sun.misc.VM.<clinit>()V | (197) Dist -1 )

ADDED node ( sun.misc.VM.initialize()V | (254) Dist -1 )

ADDED node ( java.lang.System.getKeyValuePairs()[Ljava/lang/String; | (262) Dist -1 )

ADDED node ( java.util.Hashtable.put(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object; | (272) Dist -1 )

ADDED node ( java.util.Hashtable.hash(Ljava/lang/Object;)I | (278) Dist -1 )

ADDED node ( java.lang.String.hashCode()I | (282) Dist -1 )

ADDED node ( java.util.Hashtable$Entry.<init>(ILjava/lang/Object;Ljava/lang/Object;Ljava/util/Hashtable$Entry;)V | (290) Dist -1 )

ADDED node ( java.util.Hashtable.rehash()V | (558) Dist -1 )

ADDED node ( java.lang.System.createJavaLangAccess()Lsun/misc/JavaLangAccess; | (746) Dist -1 )

ADDED node ( java.lang.System$1.<init>()V | (750) Dist -1 )

ADDED node ( sun.misc.Unsafe.<init>()V | (758) Dist -1 )

ADDED From node ( sun.misc.Unsafe.<clinit>()V | (759) Dist -1 )

ADDED node ( gov.nasa.jpf.vm.Verify.getInt(II)I | (766) Dist -1 )

ADDED From node ( calc.view.CalculatorView.main([Ljava/lang/String;)V | (767) Dist -1 )

----------------------------------- [1] forward: 0 new

----------------------------------- [2] forward: 1 new

ADDED node ( calc.controller.CalculatorController.<init>()V | (774) Dist -1 )

ADDED node ( calc.controller.AbstractController.<init>()V | (778) Dist -1 )

ADDED node ( calc.model.CalculatorModel.<init>()V | (786) Dist -1 )

ADDED node ( calc.model.AbstractModel.<init>()V | (790) Dist -1 )

ADDED node ( java.util.ArrayList.<init>(I)V | (798) Dist -1 )

ADDED node ( java.util.AbstractList.<init>()V | (802) Dist -1 )

ADDED node ( java.util.AbstractCollection.<init>()V | (806) Dist -1 )

ADDED node ( calc.controller.AbstractController.setModel(Lcalc/model/Model;)V | (816) Dist -1 )

ADDED node ( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 )

ADDED node ( calc.view.JFrameView.<init>(Lcalc/model/Model;Lcalc/controller/Controller;)V | (824) Dist -1 )

ADDED node ( calc.noSwing.MyJFrame.<init>()V | (828) Dist -1 )

ADDED node ( calc.view.JFrameView.setModel(Lcalc/model/Model;)V | (836) Dist -1 )

ADDED node ( calc.view.JFrameView.registerWithModel()V | (840) Dist -1 )

ADDED node ( calc.model.AbstractModel.addModelListener(Lcalc/model/ModelListener;)V | (844) Dist -1 )

ADDED node ( java.util.ArrayList.add(Ljava/lang/Object;)Z | (848) Dist -1 )

ADDED node ( java.util.ArrayList.ensureCapacityInternal(I)V | (852) Dist -1 )

ADDED node ( java.util.ArrayList.ensureExplicitCapacity(I)V | (858) Dist -1 )

ADDED node ( calc.view.JFrameView.setController(Lcalc/controller/Controller;)V | (864) Dist -1 )

ADDED node ( calc.noSwing.JTextField.<init>()V | (868) Dist -1 )

ADDED node ( calc.noSwing.JButton.<init>(Ljava/lang/String;)V | (876) Dist -1 )

ADDED node ( calc.view.CalculatorView$Handler.<init>(Lcalc/view/CalculatorView;)V | (988) Dist -1 )

ADDED node ( gov.nasa.jpf.ConsoleOutputStream.println(Ljava/lang/String;)V | (996) Dist -1 )

Initial

ADDED node ( calc.noSwing.JTextField.setText(Ljava/lang/String;)V | (1000) Dist -1 )

ADDED node ( java.lang.StringBuilder.<init>(Ljava/lang/String;)V | (1004) Dist -1 )

ADDED node ( java.lang.StringBuilder.append(Ljava/lang/String;)Ljava/lang/StringBuilder; | (1008) Dist -1 )

setText(0)

ADDED node ( calc.noSwing.MyJFrame.getContentPane()Lcalc/noSwing/Container; | (1016) Dist -1 )

ADDED node ( calc.noSwing.Container.<init>()V | (1020) Dist -1 )

ADDED node ( calc.noSwing.Container.add(Lcalc/noSwing/JTextField;Ljava/lang/String;)V | (1028) Dist -1 )

ADDED node ( calc.noSwing.JPanel.<init>()V | (1032) Dist -1 )

ADDED node ( calc.noSwing.JButton.addActionListener(Lcalc/noSwing/ActionListener;)V | (1040) Dist -1 )

ADDED node ( calc.noSwing.GridLayout.<init>(IIII)V | (1096) Dist -1 )

ADDED node ( calc.noSwing.Container.add(Lcalc/noSwing/JPanel;Ljava/lang/String;)V | (1116) Dist -1 )

ADDED node ( calc.noSwing.JPanel.add(Lcalc/noSwing/JButton;Ljava/lang/Object;)V | (1120) Dist -1 )

ADDED node ( calc.noSwing.MyJFrame.pack()V | (1176) Dist -1 )

ADDED node ( calc.controller.AbstractController.setView(Lcalc/view/View;)V | (1180) Dist -1 )

ADDED node ( calc.controller.AbstractController.getView()Lcalc/view/View; | (1184) Dist -1 )

ADDED node ( calc.noSwing.MyJFrame.setVisible(Z)V | (1188) Dist -1 )

ADDED node ( calc.view.CalculatorView.start(Lcalc/view/CalculatorView;II)V | (1196) Dist -1 )

ADDED node ( calc.noSwing.ActionEvent.<init>(Ljava/lang/Object;ILjava/lang/String;)V | (1204) Dist -1 )

ADDED node ( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist -1 )

ADDED node ( calc.view.JFrameView.getController()Lcalc/controller/Controller; | (1218) Dist -1 )

ADDED node ( calc.noSwing.ActionEvent.getActionCommand()Ljava/lang/String; | (1222) Dist -1 )

ADDED node ( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist -1 )

ADDED node ( java.lang.String.equals(Ljava/lang/Object;)Z | (1230) Dist -1 )

ADDED node ( calc.controller.AbstractController.getModel()Lcalc/model/Model; | (1254) Dist -1 )

ADDED node ( java.lang.Integer.parseInt(Ljava/lang/String;)I | (1258) Dist -1 )

ADDED node ( calc.model.CalculatorModel.store(I)V | (1262) Dist -1 )

ADDED node ( calc.model.ModelEvent.<init>(Ljava/lang/Object;ILjava/lang/String;I)V | (1266) Dist -1 )

ADDED node ( java.lang.StringBuilder.append(I)Ljava/lang/StringBuilder; | (1282) Dist -1 )

model.store::101

ADDED node ( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist -1 )

ADDED node ( java.util.ArrayList.clone()Ljava/lang/Object; | (1290) Dist -1 )

ADDED node ( java.lang.Object.clone()Ljava/lang/Object; | (1294) Dist -1 )

ADDED node ( java.util.Arrays.copyOf([Ljava/lang/Object;I)[Ljava/lang/Object; | (1298) Dist -1 )

ADDED From node ( java.util.Arrays.<clinit>()V | (1303) Dist -1 )

ADDED node ( java.lang.Object.getClass()Ljava/lang/Class; | (1308) Dist -1 )

ADDED node ( java.lang.Math.min(II)I | (1314) Dist -1 )

ADDED From node ( java.util.Arrays.copyOf([Ljava/lang/Object;ILjava/lang/Class;)[Ljava/lang/Object; | (1315) Dist -1 )

ADDED node ( java.util.ArrayList.iterator()Ljava/util/Iterator; | (1318) Dist -1 )

ADDED node ( java.util.ArrayList$Itr.<init>(Ljava/util/ArrayList;Ljava/util/ArrayList$1;)V | (1322) Dist -1 )

ADDED node ( java.util.ArrayList$Itr.<init>(Ljava/util/ArrayList;)V | (1326) Dist -1 )

ADDED node ( java.util.ArrayList$Itr.hasNext()Z | (1334) Dist -1 )

ADDED node ( java.util.ArrayList.access$100(Ljava/util/ArrayList;)I | (1338) Dist -1 )

ADDED node ( java.util.ArrayList$Itr.next()Ljava/lang/Object; | (1346) Dist -1 )

ADDED node ( java.util.ArrayList$Itr.checkForComodification()V | (1350) Dist -1 )

ADDED node ( java.util.ArrayList.access$200(Ljava/util/ArrayList;)[Ljava/lang/Object; | (1362) Dist -1 )

ADDED node ( calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V | (1368) Dist -1 )

ADDED node ( calc.model.ModelEvent.getAmount()I | (1372) Dist -1 )

setText(101)

modeChanged::msg = 101

model.store::101

setText(101)

modeChanged::msg = 101

ADDED node ( calc.view.CalculatorView.equals(Lcalc/view/CalculatorView;)V | (1596) Dist -1 )

ADDED node ( calc.noSwing.JButton.pushed()V | (1600) Dist -1 )

ADDED node ( calc.model.CalculatorModel.equals()V | (1658) Dist -1 )

model.equals:: state = add total = 101

setText(101)

modeChanged::msg = 101

model.equals:: state = add total = 202

setText(202)

modeChanged::msg = 202

----------------------------------- [3] forward: 2 new end

----------------------------------- [2] backtrack: 1

Initial

setText(0)

ADDED node ( calc.view.CalculatorView.subtraction(Lcalc/view/CalculatorView;II)V | (2432) Dist -1 )

ADDED node ( calc.view.CalculatorView.pickButton(Lcalc/view/CalculatorView;I)V | (2436) Dist -1 )

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

----------------------------------- [3] forward: 3 new end

----------------------------------- [2] backtrack: 1

Initial

setText(0)

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

----------------------------------- [3] forward: 3 visited end

----------------------------------- [2] backtrack: 1

Initial

setText(0)

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

----------------------------------- [3] forward: 3 visited end

----------------------------------- [2] backtrack: 1

----------------------------------- [1] backtrack: 0

----------------------------------- [2] forward: 4 new

Initial

setText(0)

ADDED node ( calc.view.CalculatorView.addition(Lcalc/view/CalculatorView;II)V | (4330) Dist -1 )

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

----------------------------------- [3] forward: 3 visited end

----------------------------------- [2] backtrack: 4

Initial

setText(0)

model.store::101

setText(101)

modeChanged::msg = 101

model.store::101

setText(101)

modeChanged::msg = 101

model.equals:: state = add total = 101

setText(101)

modeChanged::msg = 101

model.equals:: state = add total = 202

setText(202)

modeChanged::msg = 202

----------------------------------- [3] forward: 2 visited end

----------------------------------- [2] backtrack: 4

Initial

setText(0)

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

----------------------------------- [3] forward: 3 visited end

----------------------------------- [2] backtrack: 4

Initial

setText(0)

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

----------------------------------- [3] forward: 3 visited end

----------------------------------- [2] backtrack: 4

----------------------------------- [1] backtrack: 0

----------------------------------- [2] forward: 5 new

Initial

setText(0)

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

----------------------------------- [3] forward: 3 visited end

----------------------------------- [2] backtrack: 5

Initial

setText(0)

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

----------------------------------- [3] forward: 3 visited end

----------------------------------- [2] backtrack: 5

Initial

setText(0)

model.store::101

setText(101)

modeChanged::msg = 101

model.store::101

setText(101)

modeChanged::msg = 101

model.equals:: state = add total = 101

setText(101)

modeChanged::msg = 101

model.equals:: state = add total = 202

setText(202)

modeChanged::msg = 202

----------------------------------- [3] forward: 2 visited end

----------------------------------- [2] backtrack: 5

Initial

setText(0)

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

----------------------------------- [3] forward: 3 visited end

----------------------------------- [2] backtrack: 5

----------------------------------- [1] backtrack: 0

----------------------------------- [2] forward: 6 new

Initial

setText(0)

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

----------------------------------- [3] forward: 3 visited end

----------------------------------- [2] backtrack: 6

Initial

setText(0)

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

----------------------------------- [3] forward: 3 visited end

----------------------------------- [2] backtrack: 6

Initial

setText(0)

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

setText(-101)

modeChanged::msg = -101

----------------------------------- [3] forward: 3 visited end

----------------------------------- [2] backtrack: 6

Initial

setText(0)

model.store::101

setText(101)

modeChanged::msg = 101

model.store::101

setText(101)

modeChanged::msg = 101

model.equals:: state = add total = 101

setText(101)

modeChanged::msg = 101

model.equals:: state = add total = 202

setText(202)

modeChanged::msg = 202

----------------------------------- [3] forward: 2 visited end

----------------------------------- [2] backtrack: 6

----------------------------------- [1] backtrack: 0

----------------------------------- [0] backtrack: -1

----------------------------------- search finished

Looking For StartNode = calc.view.CalculatorView.equals(Lcalc/view/CalculatorView;)V

Looking For EndNode = calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V

getPaths Starting Graph

( java.lang.Boolean.<init>(Z)V | (0) Dist -1 )

( java.lang.Boolean.<clinit>()V | (1) Dist -1 )

( java.lang.Object.<init>()V | (4) Dist -1 )

( java.lang.Class.getPrimitiveClass(Ljava/lang/String;)Ljava/lang/Class; | (16) Dist -1 )

( java.lang.Short.<clinit>()V | (21) Dist -1 )

( java.lang.Class.desiredAssertionStatus()Z | (24) Dist -1 )

( java.lang.Integer.<clinit>()V | (25) Dist -1 )

( java.lang.Long.<clinit>()V | (35) Dist -1 )

( java.lang.Float.<clinit>()V | (39) Dist -1 )

( java.lang.Double.<clinit>()V | (43) Dist -1 )

( java.lang.Byte.<clinit>()V | (47) Dist -1 )

( java.lang.String$CaseInsensitiveComparator.<init>(Ljava/lang/String$1;)V | (50) Dist -1 )

( java.lang.String.<clinit>()V | (51) Dist -1 )

( java.lang.String$CaseInsensitiveComparator.<init>()V | (54) Dist -1 )

( java.lang.Thread$State.<init>(Ljava/lang/String;I)V | (62) Dist -1 )

( java.lang.Thread$State.<clinit>()V | (63) Dist -1 )

( java.lang.Enum.<init>(Ljava/lang/String;I)V | (66) Dist -1 )

( java.lang.System.createSystemErr()Ljava/io/PrintStream; | (134) Dist -1 )

( java.lang.System.<clinit>()V | (135) Dist -1 )

( java.util.Properties.<init>()V | (138) Dist -1 )

( java.util.Properties.<init>(Ljava/util/Properties;)V | (142) Dist -1 )

( java.util.Hashtable.<init>()V | (146) Dist -1 )

( java.util.Hashtable.<init>(IF)V | (150) Dist -1 )

( java.util.Dictionary.<init>()V | (154) Dist -1 )

( java.lang.Float.isNaN(F)Z | (166) Dist -1 )

( java.lang.Math.min(FF)F | (174) Dist -1 )

( java.lang.Float.floatToIntBits(F)I | (178) Dist -1 )

( java.lang.Math.<clinit>()V | (179) Dist -1 )

( java.lang.Double.doubleToLongBits(D)J | (182) Dist -1 )

( java.util.Hashtable.initHashSeedAsNeeded(I)Z | (186) Dist -1 )

( sun.misc.VM.isBooted()Z | (192) Dist -1 )

( sun.misc.VM.<clinit>()V | (197) Dist -1 )

( sun.misc.VM.initialize()V | (254) Dist -1 )

( java.lang.System.getKeyValuePairs()[Ljava/lang/String; | (262) Dist -1 )

( java.util.Hashtable.put(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object; | (272) Dist -1 )

( java.util.Hashtable.hash(Ljava/lang/Object;)I | (278) Dist -1 )

( java.lang.String.hashCode()I | (282) Dist -1 )

( java.util.Hashtable$Entry.<init>(ILjava/lang/Object;Ljava/lang/Object;Ljava/util/Hashtable$Entry;)V | (290) Dist -1 )

( java.util.Hashtable.rehash()V | (558) Dist -1 )

( java.lang.System.createJavaLangAccess()Lsun/misc/JavaLangAccess; | (746) Dist -1 )

( java.lang.System$1.<init>()V | (750) Dist -1 )

( sun.misc.Unsafe.<init>()V | (758) Dist -1 )

( sun.misc.Unsafe.<clinit>()V | (759) Dist -1 )

( gov.nasa.jpf.vm.Verify.getInt(II)I | (766) Dist -1 )

( calc.view.CalculatorView.main([Ljava/lang/String;)V | (767) Dist -1 )

( calc.controller.CalculatorController.<init>()V | (774) Dist -1 )

( calc.controller.AbstractController.<init>()V | (778) Dist -1 )

( calc.model.CalculatorModel.<init>()V | (786) Dist -1 )

( calc.model.AbstractModel.<init>()V | (790) Dist -1 )

( java.util.ArrayList.<init>(I)V | (798) Dist -1 )

( java.util.AbstractList.<init>()V | (802) Dist -1 )

( java.util.AbstractCollection.<init>()V | (806) Dist -1 )

( calc.controller.AbstractController.setModel(Lcalc/model/Model;)V | (816) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 )

( calc.view.JFrameView.<init>(Lcalc/model/Model;Lcalc/controller/Controller;)V | (824) Dist -1 )

( calc.noSwing.MyJFrame.<init>()V | (828) Dist -1 )

( calc.view.JFrameView.setModel(Lcalc/model/Model;)V | (836) Dist -1 )

( calc.view.JFrameView.registerWithModel()V | (840) Dist -1 )

( calc.model.AbstractModel.addModelListener(Lcalc/model/ModelListener;)V | (844) Dist -1 )

( java.util.ArrayList.add(Ljava/lang/Object;)Z | (848) Dist -1 )

( java.util.ArrayList.ensureCapacityInternal(I)V | (852) Dist -1 )

( java.util.ArrayList.ensureExplicitCapacity(I)V | (858) Dist -1 )

( calc.view.JFrameView.setController(Lcalc/controller/Controller;)V | (864) Dist -1 )

( calc.noSwing.JTextField.<init>()V | (868) Dist -1 )

( calc.noSwing.JButton.<init>(Ljava/lang/String;)V | (876) Dist -1 )

( calc.view.CalculatorView$Handler.<init>(Lcalc/view/CalculatorView;)V | (988) Dist -1 )

( gov.nasa.jpf.ConsoleOutputStream.println(Ljava/lang/String;)V | (996) Dist -1 )

( calc.noSwing.JTextField.setText(Ljava/lang/String;)V | (1000) Dist -1 )

( java.lang.StringBuilder.<init>(Ljava/lang/String;)V | (1004) Dist -1 )

( java.lang.StringBuilder.append(Ljava/lang/String;)Ljava/lang/StringBuilder; | (1008) Dist -1 )

( calc.noSwing.MyJFrame.getContentPane()Lcalc/noSwing/Container; | (1016) Dist -1 )

( calc.noSwing.Container.<init>()V | (1020) Dist -1 )

( calc.noSwing.Container.add(Lcalc/noSwing/JTextField;Ljava/lang/String;)V | (1028) Dist -1 )

( calc.noSwing.JPanel.<init>()V | (1032) Dist -1 )

( calc.noSwing.JButton.addActionListener(Lcalc/noSwing/ActionListener;)V | (1040) Dist -1 )

( calc.noSwing.GridLayout.<init>(IIII)V | (1096) Dist -1 )

( calc.noSwing.Container.add(Lcalc/noSwing/JPanel;Ljava/lang/String;)V | (1116) Dist -1 )

( calc.noSwing.JPanel.add(Lcalc/noSwing/JButton;Ljava/lang/Object;)V | (1120) Dist -1 )

( calc.noSwing.MyJFrame.pack()V | (1176) Dist -1 )

( calc.controller.AbstractController.setView(Lcalc/view/View;)V | (1180) Dist -1 )

( calc.controller.AbstractController.getView()Lcalc/view/View; | (1184) Dist -1 )

( calc.noSwing.MyJFrame.setVisible(Z)V | (1188) Dist -1 )

( calc.view.CalculatorView.start(Lcalc/view/CalculatorView;II)V | (1196) Dist -1 )

( calc.noSwing.ActionEvent.<init>(Ljava/lang/Object;ILjava/lang/String;)V | (1204) Dist -1 )

( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist -1 )

( calc.view.JFrameView.getController()Lcalc/controller/Controller; | (1218) Dist -1 )

( calc.noSwing.ActionEvent.getActionCommand()Ljava/lang/String; | (1222) Dist -1 )

( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist -1 )

( java.lang.String.equals(Ljava/lang/Object;)Z | (1230) Dist -1 )

( calc.controller.AbstractController.getModel()Lcalc/model/Model; | (1254) Dist -1 )

( java.lang.Integer.parseInt(Ljava/lang/String;)I | (1258) Dist -1 )

( calc.model.CalculatorModel.store(I)V | (1262) Dist -1 )

( calc.model.ModelEvent.<init>(Ljava/lang/Object;ILjava/lang/String;I)V | (1266) Dist -1 )

( java.lang.StringBuilder.append(I)Ljava/lang/StringBuilder; | (1282) Dist -1 )

( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist -1 )

( java.util.ArrayList.clone()Ljava/lang/Object; | (1290) Dist -1 )

( java.lang.Object.clone()Ljava/lang/Object; | (1294) Dist -1 )

( java.util.Arrays.copyOf([Ljava/lang/Object;I)[Ljava/lang/Object; | (1298) Dist -1 )

( java.util.Arrays.<clinit>()V | (1303) Dist -1 )

( java.lang.Object.getClass()Ljava/lang/Class; | (1308) Dist -1 )

( java.lang.Math.min(II)I | (1314) Dist -1 )

( java.util.Arrays.copyOf([Ljava/lang/Object;ILjava/lang/Class;)[Ljava/lang/Object; | (1315) Dist -1 )

( java.util.ArrayList.iterator()Ljava/util/Iterator; | (1318) Dist -1 )

( java.util.ArrayList$Itr.<init>(Ljava/util/ArrayList;Ljava/util/ArrayList$1;)V | (1322) Dist -1 )

( java.util.ArrayList$Itr.<init>(Ljava/util/ArrayList;)V | (1326) Dist -1 )

( java.util.ArrayList$Itr.hasNext()Z | (1334) Dist -1 )

( java.util.ArrayList.access$100(Ljava/util/ArrayList;)I | (1338) Dist -1 )

( java.util.ArrayList$Itr.next()Ljava/lang/Object; | (1346) Dist -1 )

( java.util.ArrayList$Itr.checkForComodification()V | (1350) Dist -1 )

( java.util.ArrayList.access$200(Ljava/util/ArrayList;)[Ljava/lang/Object; | (1362) Dist -1 )

( calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V | (1368) Dist -1 )

( calc.model.ModelEvent.getAmount()I | (1372) Dist -1 )

( calc.view.CalculatorView.equals(Lcalc/view/CalculatorView;)V | (1596) Dist -1 )

( calc.noSwing.JButton.pushed()V | (1600) Dist -1 )

( calc.model.CalculatorModel.equals()V | (1658) Dist -1 )

( calc.view.CalculatorView.subtraction(Lcalc/view/CalculatorView;II)V | (2432) Dist -1 )

( calc.view.CalculatorView.pickButton(Lcalc/view/CalculatorView;I)V | (2436) Dist -1 )

( calc.view.CalculatorView.addition(Lcalc/view/CalculatorView;II)V | (4330) Dist -1 )

( java.util.Properties.<init>(Ljava/util/Properties;)V | (142) Dist -1 ) -> ( java.util.Hashtable.<init>()V | (146) Dist -1 )

( java.util.Hashtable.<init>(IF)V | (150) Dist -1 ) -> ( java.util.Dictionary.<init>()V | (154) Dist -1 )

( java.util.Hashtable.<init>(IF)V | (150) Dist -1 ) -> ( java.lang.Float.isNaN(F)Z | (166) Dist -1 )

( java.util.Hashtable.<init>(IF)V | (150) Dist -1 ) -> ( java.lang.Math.min(FF)F | (174) Dist -1 )

( java.util.Hashtable.<init>(IF)V | (150) Dist -1 ) -> ( java.util.Hashtable.initHashSeedAsNeeded(I)Z | (186) Dist -1 )

( java.lang.Thread$State.<clinit>()V | (63) Dist -1 ) -> ( java.lang.Thread$State.<init>(Ljava/lang/String;I)V | (62) Dist -1 )

( java.util.Hashtable.hash(Ljava/lang/Object;)I | (278) Dist -1 ) -> ( java.lang.String.hashCode()I | (282) Dist -1 )

( java.util.ArrayList$Itr.<init>(Ljava/util/ArrayList;)V | (1326) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( sun.misc.Unsafe.<init>()V | (758) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( java.lang.Integer.<clinit>()V | (25) Dist -1 ) -> ( java.lang.Class.desiredAssertionStatus()Z | (24) Dist -1 )

( java.lang.Integer.<clinit>()V | (25) Dist -1 ) -> ( java.lang.Class.getPrimitiveClass(Ljava/lang/String;)Ljava/lang/Class; | (16) Dist -1 )

( java.lang.Thread$State.<init>(Ljava/lang/String;I)V | (62) Dist -1 ) -> ( java.lang.Enum.<init>(Ljava/lang/String;I)V | (66) Dist -1 )

( java.util.ArrayList.iterator()Ljava/util/Iterator; | (1318) Dist -1 ) -> ( java.util.ArrayList$Itr.<init>(Ljava/util/ArrayList;Ljava/util/ArrayList$1;)V | (1322) Dist -1 )

( java.lang.Math.<clinit>()V | (179) Dist -1 ) -> ( java.lang.Float.floatToIntBits(F)I | (178) Dist -1 )

( java.lang.Math.<clinit>()V | (179) Dist -1 ) -> ( java.lang.Double.doubleToLongBits(D)J | (182) Dist -1 )

( calc.view.JFrameView.registerWithModel()V | (840) Dist -1 ) -> ( calc.model.AbstractModel.addModelListener(Lcalc/model/ModelListener;)V | (844) Dist -1 )

( java.util.ArrayList$Itr.next()Ljava/lang/Object; | (1346) Dist -1 ) -> ( java.util.ArrayList$Itr.checkForComodification()V | (1350) Dist -1 )

( java.util.ArrayList$Itr.next()Ljava/lang/Object; | (1346) Dist -1 ) -> ( java.util.ArrayList.access$100(Ljava/util/ArrayList;)I | (1338) Dist -1 )

( java.util.ArrayList$Itr.next()Ljava/lang/Object; | (1346) Dist -1 ) -> ( java.util.ArrayList.access$200(Ljava/util/ArrayList;)[Ljava/lang/Object; | (1362) Dist -1 )

( java.lang.Boolean.<clinit>()V | (1) Dist -1 ) -> ( java.lang.Boolean.<init>(Z)V | (0) Dist -1 )

( java.lang.Boolean.<clinit>()V | (1) Dist -1 ) -> ( java.lang.Class.getPrimitiveClass(Ljava/lang/String;)Ljava/lang/Class; | (16) Dist -1 )

( calc.view.CalculatorView.start(Lcalc/view/CalculatorView;II)V | (1196) Dist -1 ) -> ( calc.noSwing.ActionEvent.<init>(Ljava/lang/Object;ILjava/lang/String;)V | (1204) Dist -1 )

( calc.view.CalculatorView.start(Lcalc/view/CalculatorView;II)V | (1196) Dist -1 ) -> ( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist -1 )

( calc.view.CalculatorView.start(Lcalc/view/CalculatorView;II)V | (1196) Dist -1 ) -> ( calc.view.CalculatorView.equals(Lcalc/view/CalculatorView;)V | (1596) Dist -1 )

( calc.view.CalculatorView.start(Lcalc/view/CalculatorView;II)V | (1196) Dist -1 ) -> ( calc.view.CalculatorView.subtraction(Lcalc/view/CalculatorView;II)V | (2432) Dist -1 )

( calc.view.CalculatorView.start(Lcalc/view/CalculatorView;II)V | (1196) Dist -1 ) -> ( calc.view.CalculatorView.addition(Lcalc/view/CalculatorView;II)V | (4330) Dist -1 )

( java.util.ArrayList.<init>(I)V | (798) Dist -1 ) -> ( java.util.AbstractList.<init>()V | (802) Dist -1 )

( java.util.AbstractCollection.<init>()V | (806) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( java.lang.Enum.<init>(Ljava/lang/String;I)V | (66) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( calc.view.CalculatorView.addition(Lcalc/view/CalculatorView;II)V | (4330) Dist -1 ) -> ( calc.view.CalculatorView.pickButton(Lcalc/view/CalculatorView;I)V | (2436) Dist -1 )

( calc.view.CalculatorView.addition(Lcalc/view/CalculatorView;II)V | (4330) Dist -1 ) -> ( calc.noSwing.JButton.pushed()V | (1600) Dist -1 )

( calc.view.CalculatorView.pickButton(Lcalc/view/CalculatorView;I)V | (2436) Dist -1 ) -> ( calc.noSwing.JButton.pushed()V | (1600) Dist -1 )

( calc.noSwing.MyJFrame.<init>()V | (828) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( java.util.ArrayList$Itr.<init>(Ljava/util/ArrayList;Ljava/util/ArrayList$1;)V | (1322) Dist -1 ) -> ( java.util.ArrayList$Itr.<init>(Ljava/util/ArrayList;)V | (1326) Dist -1 )

( calc.model.ModelEvent.<init>(Ljava/lang/Object;ILjava/lang/String;I)V | (1266) Dist -1 ) -> ( calc.noSwing.ActionEvent.<init>(Ljava/lang/Object;ILjava/lang/String;)V | (1204) Dist -1 )

( calc.view.CalculatorView.main([Ljava/lang/String;)V | (767) Dist -1 ) -> ( gov.nasa.jpf.vm.Verify.getInt(II)I | (766) Dist -1 )

( calc.view.CalculatorView.main([Ljava/lang/String;)V | (767) Dist -1 ) -> ( calc.controller.CalculatorController.<init>()V | (774) Dist -1 )

( calc.view.CalculatorView.main([Ljava/lang/String;)V | (767) Dist -1 ) -> ( calc.controller.AbstractController.getView()Lcalc/view/View; | (1184) Dist -1 )

( calc.view.CalculatorView.main([Ljava/lang/String;)V | (767) Dist -1 ) -> ( calc.view.CalculatorView.start(Lcalc/view/CalculatorView;II)V | (1196) Dist -1 )

( calc.model.AbstractModel.addModelListener(Lcalc/model/ModelListener;)V | (844) Dist -1 ) -> ( java.util.ArrayList.add(Ljava/lang/Object;)Z | (848) Dist -1 )

( calc.noSwing.Container.<init>()V | (1020) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( java.lang.Boolean.<init>(Z)V | (0) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( java.lang.System.createJavaLangAccess()Lsun/misc/JavaLangAccess; | (746) Dist -1 ) -> ( java.lang.System$1.<init>()V | (750) Dist -1 )

( calc.view.CalculatorView.equals(Lcalc/view/CalculatorView;)V | (1596) Dist -1 ) -> ( calc.noSwing.JButton.pushed()V | (1600) Dist -1 )

( java.util.Hashtable.rehash()V | (558) Dist -1 ) -> ( java.lang.Math.min(FF)F | (174) Dist -1 )

( java.util.Hashtable.rehash()V | (558) Dist -1 ) -> ( java.util.Hashtable.initHashSeedAsNeeded(I)Z | (186) Dist -1 )

( calc.view.JFrameView.<init>(Lcalc/model/Model;Lcalc/controller/Controller;)V | (824) Dist -1 ) -> ( calc.noSwing.MyJFrame.<init>()V | (828) Dist -1 )

( calc.view.JFrameView.<init>(Lcalc/model/Model;Lcalc/controller/Controller;)V | (824) Dist -1 ) -> ( calc.view.JFrameView.setModel(Lcalc/model/Model;)V | (836) Dist -1 )

( calc.view.JFrameView.<init>(Lcalc/model/Model;Lcalc/controller/Controller;)V | (824) Dist -1 ) -> ( calc.view.JFrameView.setController(Lcalc/controller/Controller;)V | (864) Dist -1 )

( calc.view.JFrameView.setModel(Lcalc/model/Model;)V | (836) Dist -1 ) -> ( calc.view.JFrameView.registerWithModel()V | (840) Dist -1 )

( calc.controller.CalculatorController.<init>()V | (774) Dist -1 ) -> ( calc.controller.AbstractController.<init>()V | (778) Dist -1 )

( calc.controller.CalculatorController.<init>()V | (774) Dist -1 ) -> ( calc.model.CalculatorModel.<init>()V | (786) Dist -1 )

( calc.controller.CalculatorController.<init>()V | (774) Dist -1 ) -> ( calc.controller.AbstractController.setModel(Lcalc/model/Model;)V | (816) Dist -1 )

( calc.controller.CalculatorController.<init>()V | (774) Dist -1 ) -> ( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 )

( calc.controller.CalculatorController.<init>()V | (774) Dist -1 ) -> ( calc.controller.AbstractController.setView(Lcalc/view/View;)V | (1180) Dist -1 )

( calc.controller.CalculatorController.<init>()V | (774) Dist -1 ) -> ( calc.controller.AbstractController.getView()Lcalc/view/View; | (1184) Dist -1 )

( calc.controller.CalculatorController.<init>()V | (774) Dist -1 ) -> ( calc.noSwing.MyJFrame.setVisible(Z)V | (1188) Dist -1 )

( calc.noSwing.MyJFrame.getContentPane()Lcalc/noSwing/Container; | (1016) Dist -1 ) -> ( calc.noSwing.Container.<init>()V | (1020) Dist -1 )

( sun.misc.Unsafe.<clinit>()V | (759) Dist -1 ) -> ( sun.misc.Unsafe.<init>()V | (758) Dist -1 )

( java.util.AbstractList.<init>()V | (802) Dist -1 ) -> ( java.util.AbstractCollection.<init>()V | (806) Dist -1 )

( java.util.ArrayList$Itr.hasNext()Z | (1334) Dist -1 ) -> ( java.util.ArrayList.access$100(Ljava/util/ArrayList;)I | (1338) Dist -1 )

( java.util.ArrayList.ensureCapacityInternal(I)V | (852) Dist -1 ) -> ( java.util.ArrayList.ensureExplicitCapacity(I)V | (858) Dist -1 )

( calc.noSwing.JTextField.setText(Ljava/lang/String;)V | (1000) Dist -1 ) -> ( java.lang.StringBuilder.<init>(Ljava/lang/String;)V | (1004) Dist -1 )

( calc.noSwing.JTextField.setText(Ljava/lang/String;)V | (1000) Dist -1 ) -> ( java.lang.StringBuilder.append(Ljava/lang/String;)Ljava/lang/StringBuilder; | (1008) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( calc.view.JFrameView.<init>(Lcalc/model/Model;Lcalc/controller/Controller;)V | (824) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( calc.noSwing.JTextField.<init>()V | (868) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( calc.noSwing.JButton.<init>(Ljava/lang/String;)V | (876) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( calc.view.CalculatorView$Handler.<init>(Lcalc/view/CalculatorView;)V | (988) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( gov.nasa.jpf.ConsoleOutputStream.println(Ljava/lang/String;)V | (996) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( calc.noSwing.JTextField.setText(Ljava/lang/String;)V | (1000) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( calc.noSwing.MyJFrame.getContentPane()Lcalc/noSwing/Container; | (1016) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( calc.noSwing.Container.add(Lcalc/noSwing/JTextField;Ljava/lang/String;)V | (1028) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( calc.noSwing.JPanel.<init>()V | (1032) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( calc.noSwing.JButton.addActionListener(Lcalc/noSwing/ActionListener;)V | (1040) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( calc.noSwing.GridLayout.<init>(IIII)V | (1096) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( calc.noSwing.Container.add(Lcalc/noSwing/JPanel;Ljava/lang/String;)V | (1116) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( calc.noSwing.JPanel.add(Lcalc/noSwing/JButton;Ljava/lang/Object;)V | (1120) Dist -1 )

( calc.view.CalculatorView.<init>(Lcalc/model/CalculatorModel;Lcalc/controller/CalculatorController;)V | (820) Dist -1 ) -> ( calc.noSwing.MyJFrame.pack()V | (1176) Dist -1 )

( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist -1 ) -> ( java.util.ArrayList.clone()Ljava/lang/Object; | (1290) Dist -1 )

( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist -1 ) -> ( java.util.ArrayList.iterator()Ljava/util/Iterator; | (1318) Dist -1 )

( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist -1 ) -> ( java.util.ArrayList$Itr.hasNext()Z | (1334) Dist -1 )

( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist -1 ) -> ( java.util.ArrayList$Itr.next()Ljava/lang/Object; | (1346) Dist -1 )

( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist -1 ) -> ( calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V | (1368) Dist -1 )

( calc.noSwing.GridLayout.<init>(IIII)V | (1096) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( java.util.Hashtable.<init>()V | (146) Dist -1 ) -> ( java.util.Hashtable.<init>(IF)V | (150) Dist -1 )

( java.util.ArrayList.add(Ljava/lang/Object;)Z | (848) Dist -1 ) -> ( java.util.ArrayList.ensureCapacityInternal(I)V | (852) Dist -1 )

( calc.noSwing.ActionEvent.<init>(Ljava/lang/Object;ILjava/lang/String;)V | (1204) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( java.util.Arrays.copyOf([Ljava/lang/Object;I)[Ljava/lang/Object; | (1298) Dist -1 ) -> ( java.lang.Object.getClass()Ljava/lang/Class; | (1308) Dist -1 )

( java.util.Hashtable.put(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object; | (272) Dist -1 ) -> ( java.util.Hashtable.hash(Ljava/lang/Object;)I | (278) Dist -1 )

( java.util.Hashtable.put(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object; | (272) Dist -1 ) -> ( java.util.Hashtable$Entry.<init>(ILjava/lang/Object;Ljava/lang/Object;Ljava/util/Hashtable$Entry;)V | (290) Dist -1 )

( java.util.Hashtable.put(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object; | (272) Dist -1 ) -> ( java.util.Hashtable.rehash()V | (558) Dist -1 )

( calc.view.CalculatorView.subtraction(Lcalc/view/CalculatorView;II)V | (2432) Dist -1 ) -> ( calc.view.CalculatorView.pickButton(Lcalc/view/CalculatorView;I)V | (2436) Dist -1 )

( calc.view.CalculatorView.subtraction(Lcalc/view/CalculatorView;II)V | (2432) Dist -1 ) -> ( calc.noSwing.JButton.pushed()V | (1600) Dist -1 )

( java.lang.Double.<clinit>()V | (43) Dist -1 ) -> ( java.lang.Class.getPrimitiveClass(Ljava/lang/String;)Ljava/lang/Class; | (16) Dist -1 )

( calc.noSwing.JTextField.<init>()V | (868) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( java.lang.Float.<clinit>()V | (39) Dist -1 ) -> ( java.lang.Class.getPrimitiveClass(Ljava/lang/String;)Ljava/lang/Class; | (16) Dist -1 )

( calc.controller.AbstractController.<init>()V | (778) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( java.lang.Short.<clinit>()V | (21) Dist -1 ) -> ( java.lang.Class.getPrimitiveClass(Ljava/lang/String;)Ljava/lang/Class; | (16) Dist -1 )

( calc.noSwing.JPanel.<init>()V | (1032) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( java.util.Arrays.copyOf([Ljava/lang/Object;ILjava/lang/Class;)[Ljava/lang/Object; | (1315) Dist -1 ) -> ( java.lang.Math.min(II)I | (1314) Dist -1 )

( java.lang.System$1.<init>()V | (750) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( calc.model.CalculatorModel.<init>()V | (786) Dist -1 ) -> ( calc.model.AbstractModel.<init>()V | (790) Dist -1 )

( java.util.Arrays.<clinit>()V | (1303) Dist -1 ) -> ( java.lang.Class.desiredAssertionStatus()Z | (24) Dist -1 )

( calc.model.CalculatorModel.store(I)V | (1262) Dist -1 ) -> ( calc.model.ModelEvent.<init>(Ljava/lang/Object;ILjava/lang/String;I)V | (1266) Dist -1 )

( calc.model.CalculatorModel.store(I)V | (1262) Dist -1 ) -> ( java.lang.StringBuilder.<init>(Ljava/lang/String;)V | (1004) Dist -1 )

( calc.model.CalculatorModel.store(I)V | (1262) Dist -1 ) -> ( java.lang.StringBuilder.append(I)Ljava/lang/StringBuilder; | (1282) Dist -1 )

( calc.model.CalculatorModel.store(I)V | (1262) Dist -1 ) -> ( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist -1 )

( java.util.Dictionary.<init>()V | (154) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( java.lang.Byte.<clinit>()V | (47) Dist -1 ) -> ( java.lang.Class.getPrimitiveClass(Ljava/lang/String;)Ljava/lang/Class; | (16) Dist -1 )

( java.lang.Long.<clinit>()V | (35) Dist -1 ) -> ( java.lang.Class.getPrimitiveClass(Ljava/lang/String;)Ljava/lang/Class; | (16) Dist -1 )

( java.lang.System.<clinit>()V | (135) Dist -1 ) -> ( java.lang.System.createSystemErr()Ljava/io/PrintStream; | (134) Dist -1 )

( java.lang.System.<clinit>()V | (135) Dist -1 ) -> ( java.util.Properties.<init>()V | (138) Dist -1 )

( java.lang.System.<clinit>()V | (135) Dist -1 ) -> ( java.lang.System.getKeyValuePairs()[Ljava/lang/String; | (262) Dist -1 )

( java.lang.System.<clinit>()V | (135) Dist -1 ) -> ( java.util.Hashtable.put(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object; | (272) Dist -1 )

( java.lang.System.<clinit>()V | (135) Dist -1 ) -> ( java.lang.System.createJavaLangAccess()Lsun/misc/JavaLangAccess; | (746) Dist -1 )

( sun.misc.VM.<clinit>()V | (197) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( sun.misc.VM.<clinit>()V | (197) Dist -1 ) -> ( java.util.Properties.<init>()V | (138) Dist -1 )

( sun.misc.VM.<clinit>()V | (197) Dist -1 ) -> ( sun.misc.VM.initialize()V | (254) Dist -1 )

( java.lang.String.<clinit>()V | (51) Dist -1 ) -> ( java.lang.String$CaseInsensitiveComparator.<init>(Ljava/lang/String$1;)V | (50) Dist -1 )

( calc.view.CalculatorView$Handler.<init>(Lcalc/view/CalculatorView;)V | (988) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist -1 ) -> ( calc.view.JFrameView.getController()Lcalc/controller/Controller; | (1218) Dist -1 )

( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist -1 ) -> ( calc.noSwing.ActionEvent.getActionCommand()Ljava/lang/String; | (1222) Dist -1 )

( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist -1 ) -> ( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist -1 )

( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist -1 ) -> ( calc.model.ModelEvent.<init>(Ljava/lang/Object;ILjava/lang/String;I)V | (1266) Dist -1 )

( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist -1 ) -> ( calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V | (1368) Dist -1 )

( java.lang.String$CaseInsensitiveComparator.<init>(Ljava/lang/String$1;)V | (50) Dist -1 ) -> ( java.lang.String$CaseInsensitiveComparator.<init>()V | (54) Dist -1 )

( calc.noSwing.JButton.pushed()V | (1600) Dist -1 ) -> ( calc.noSwing.ActionEvent.<init>(Ljava/lang/Object;ILjava/lang/String;)V | (1204) Dist -1 )

( calc.noSwing.JButton.pushed()V | (1600) Dist -1 ) -> ( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist -1 )

( calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V | (1368) Dist -1 ) -> ( calc.model.ModelEvent.getAmount()I | (1372) Dist -1 )

( calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V | (1368) Dist -1 ) -> ( calc.noSwing.JTextField.setText(Ljava/lang/String;)V | (1000) Dist -1 )

( calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V | (1368) Dist -1 ) -> ( java.lang.StringBuilder.<init>(Ljava/lang/String;)V | (1004) Dist -1 )

( calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V | (1368) Dist -1 ) -> ( java.lang.StringBuilder.append(Ljava/lang/String;)Ljava/lang/StringBuilder; | (1008) Dist -1 )

( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist -1 ) -> ( java.lang.String.equals(Ljava/lang/Object;)Z | (1230) Dist -1 )

( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist -1 ) -> ( calc.controller.AbstractController.getModel()Lcalc/model/Model; | (1254) Dist -1 )

( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist -1 ) -> ( java.lang.Integer.parseInt(Ljava/lang/String;)I | (1258) Dist -1 )

( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist -1 ) -> ( calc.model.CalculatorModel.store(I)V | (1262) Dist -1 )

( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist -1 ) -> ( calc.model.CalculatorModel.equals()V | (1658) Dist -1 )

( java.lang.String$CaseInsensitiveComparator.<init>()V | (54) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( calc.noSwing.JButton.<init>(Ljava/lang/String;)V | (876) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( java.util.Hashtable$Entry.<init>(ILjava/lang/Object;Ljava/lang/Object;Ljava/util/Hashtable$Entry;)V | (290) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( calc.model.CalculatorModel.equals()V | (1658) Dist -1 ) -> ( calc.model.ModelEvent.<init>(Ljava/lang/Object;ILjava/lang/String;I)V | (1266) Dist -1 )

( calc.model.CalculatorModel.equals()V | (1658) Dist -1 ) -> ( java.lang.StringBuilder.<init>(Ljava/lang/String;)V | (1004) Dist -1 )

( calc.model.CalculatorModel.equals()V | (1658) Dist -1 ) -> ( java.lang.StringBuilder.append(Ljava/lang/String;)Ljava/lang/StringBuilder; | (1008) Dist -1 )

( calc.model.CalculatorModel.equals()V | (1658) Dist -1 ) -> ( java.lang.StringBuilder.append(I)Ljava/lang/StringBuilder; | (1282) Dist -1 )

( calc.model.CalculatorModel.equals()V | (1658) Dist -1 ) -> ( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist -1 )

( java.util.ArrayList.clone()Ljava/lang/Object; | (1290) Dist -1 ) -> ( java.lang.Object.clone()Ljava/lang/Object; | (1294) Dist -1 )

( java.util.ArrayList.clone()Ljava/lang/Object; | (1290) Dist -1 ) -> ( java.util.Arrays.copyOf([Ljava/lang/Object;I)[Ljava/lang/Object; | (1298) Dist -1 )

( java.util.Hashtable.initHashSeedAsNeeded(I)Z | (186) Dist -1 ) -> ( sun.misc.VM.isBooted()Z | (192) Dist -1 )

( calc.model.AbstractModel.<init>()V | (790) Dist -1 ) -> ( java.lang.Object.<init>()V | (4) Dist -1 )

( calc.model.AbstractModel.<init>()V | (790) Dist -1 ) -> ( java.util.ArrayList.<init>(I)V | (798) Dist -1 )

( java.util.Properties.<init>()V | (138) Dist -1 ) -> ( java.util.Properties.<init>(Ljava/util/Properties;)V | (142) Dist -1 )

Number of node in starting graph 118

[( calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V | (1368) Dist 0 ) -> ( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist -1 ), ( calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V | (1368) Dist 0 ) -> ( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist -1 )]

[( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist 1 ) -> ( calc.model.CalculatorModel.store(I)V | (1262) Dist -1 ), ( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist 1 ) -> ( calc.model.CalculatorModel.equals()V | (1658) Dist -1 )]

[( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist 1 ) -> ( calc.view.CalculatorView.start(Lcalc/view/CalculatorView;II)V | (1196) Dist -1 ), ( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist 1 ) -> ( calc.noSwing.JButton.pushed()V | (1600) Dist -1 )]

[( calc.model.CalculatorModel.store(I)V | (1262) Dist 2 ) -> ( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist -1 )]

[( calc.model.CalculatorModel.equals()V | (1658) Dist 2 ) -> ( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist 3 )]

[( calc.view.CalculatorView.start(Lcalc/view/CalculatorView;II)V | (1196) Dist 2 ) -> ( calc.view.CalculatorView.main([Ljava/lang/String;)V | (767) Dist -1 )]

[( calc.noSwing.JButton.pushed()V | (1600) Dist 2 ) -> ( calc.view.CalculatorView.addition(Lcalc/view/CalculatorView;II)V | (4330) Dist -1 ), ( calc.noSwing.JButton.pushed()V | (1600) Dist 2 ) -> ( calc.view.CalculatorView.pickButton(Lcalc/view/CalculatorView;I)V | (2436) Dist -1 ), ( calc.noSwing.JButton.pushed()V | (1600) Dist 2 ) -> ( calc.view.CalculatorView.equals(Lcalc/view/CalculatorView;)V | (1596) Dist -1 ), ( calc.noSwing.JButton.pushed()V | (1600) Dist 2 ) -> ( calc.view.CalculatorView.subtraction(Lcalc/view/CalculatorView;II)V | (2432) Dist -1 )]

[( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist 3 ) -> ( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist 1 )]

[( calc.view.CalculatorView.addition(Lcalc/view/CalculatorView;II)V | (4330) Dist 3 ) -> ( calc.view.CalculatorView.start(Lcalc/view/CalculatorView;II)V | (1196) Dist 2 )]

[( calc.view.CalculatorView.pickButton(Lcalc/view/CalculatorView;I)V | (2436) Dist 3 ) -> ( calc.view.CalculatorView.addition(Lcalc/view/CalculatorView;II)V | (4330) Dist 3 ), ( calc.view.CalculatorView.pickButton(Lcalc/view/CalculatorView;I)V | (2436) Dist 3 ) -> ( calc.view.CalculatorView.subtraction(Lcalc/view/CalculatorView;II)V | (2432) Dist 3 )]

[( calc.view.CalculatorView.equals(Lcalc/view/CalculatorView;)V | (1596) Dist 3 ) -> ( calc.view.CalculatorView.start(Lcalc/view/CalculatorView;II)V | (1196) Dist 2 )]

[( calc.view.CalculatorView.subtraction(Lcalc/view/CalculatorView;II)V | (2432) Dist 3 ) -> ( calc.view.CalculatorView.start(Lcalc/view/CalculatorView;II)V | (1196) Dist 2 )]

BFSeachRev nodes visited = 13

BFSearchStart nodes visited = 8

( calc.view.CalculatorView.equals(Lcalc/view/CalculatorView;)V | (1596) Dist 0 )

( calc.noSwing.JButton.pushed()V | (1600) Dist 1 )

( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist 2 )

( calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V | (1368) Dist 3 )

( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist 3 )

( calc.model.CalculatorModel.store(I)V | (1262) Dist 4 )

( calc.model.CalculatorModel.equals()V | (1658) Dist 4 )

( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist 5 )

( calc.model.CalculatorModel.store(I)V | (1262) Dist 4 ) -> ( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist 5 )

( calc.view.CalculatorView.equals(Lcalc/view/CalculatorView;)V | (1596) Dist 0 ) -> ( calc.noSwing.JButton.pushed()V | (1600) Dist 1 )

( calc.model.CalculatorModel.equals()V | (1658) Dist 4 ) -> ( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist 5 )

( calc.model.AbstractModel.notifyChanged(Lcalc/model/ModelEvent;)V | (1286) Dist 5 ) -> ( calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V | (1368) Dist 3 )

( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist 2 ) -> ( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist 3 )

( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist 2 ) -> ( calc.view.CalculatorView.modelChanged(Lcalc/model/ModelEvent;)V | (1368) Dist 3 )

( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist 3 ) -> ( calc.model.CalculatorModel.store(I)V | (1262) Dist 4 )

( calc.controller.CalculatorController.operation(Ljava/lang/String;)V | (1226) Dist 3 ) -> ( calc.model.CalculatorModel.equals()V | (1658) Dist 4 )

( calc.noSwing.JButton.pushed()V | (1600) Dist 1 ) -> ( calc.view.CalculatorView$Handler.actionPerformed(Lcalc/noSwing/ActionEvent;)V | (1212) Dist 2 )

====================================================== results

no errors detected

====================================================== statistics

elapsed time: 00:00:02

states: new=7,visited=14,backtracked=21,end=16

search: maxDepth=3,constraints=0

choice generators: thread=1 (signal=0,lock=1,sharedRef=0,threadApi=0,reschedule=0), data=5

heap: new=3843,released=1642,maxLive=500,gcCycles=17

instructions: 25353

max memory: 60MB

loaded code: classes=90,methods=1675

====================================================== search finished: 9/15/14 7:58 PM