```
entry
                                                                                                                   LINENUMBER 32 L0
                                                                                                                   GETSTATIC java/lang/System.out : Ljava/io/PrintStream;
                                                                                                                   LDC "Original"
                                                                                                                   INVOKEVIRTUAL java/io/PrintStream.println (Ljava/lang/String;)V
                                                                                                                   LINENUMBER 33 L1
                                                                                                                   INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Sink.init ()V
                                                                                                                   LINENUMBER 35 L2
                                                                                                                   LDC "prime"
                                                                                                                   ASTORE 1
                                                                                                                   LINENUMBER 36 L3
                                                                                                                   NEW java/io/File
                                                                                                                   DUP
                                                                                                                   ALOAD 1
                                                                                                                   INVOKESPECIAL java/io/File.<init> (Ljava/lang/String;)V
                                                                                                                   ASTORE 2
                                                                                                                   L4
                                                                                                                   LINENUMBER 38 L4
                                                                                                                   ALOAD 2
                                                                                                                   INVOKEVIRTUAL java/io/File.exists ()Z
                                                                                                                   IFEQ L5
                                                                                                                                      LINENUMBER 39 L6
                                                                                                                                      ALOAD 2
                                                                                                                                      INVOKESTATIC org/apache/commons/io/FileUtils.forceDelete (Ljava/io/File;)V
                                                                                                LINENUMBER 42 L5
                                                                                               FRAME APPEND [java/lang/String java/io/File]
                                                                                               LDC "5113a1c6-79eb-4ba0-9556-8d1ae191c2e4"
                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                                                                               ALOAD 0
                                                                                                ICONST 0
                                                                                               AALOAD
                                                                                               INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean;
                                                                                               INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z
                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionTRANSIENTMODE (Z)Z PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.TRANSIENTMODE : Z
                                                                                               LINENUMBER 43 L7
                                                                                               ALOAD 0
                                                                                               ICONST_1
                                                                                                AALOAD
                                                                                                INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean;
                                                                                               INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z
                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionCLOCK (Z)Z
                                                                                               PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.CLOCK: Ž
                                                                                                LINENUMBER 44 L8
                                                                                                ALOAD 0
                                                                                                ICONST_2
                                                                                               AALOAD
                                                                                               INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean;
                                                                                               INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z
                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionDEEPCOPY (Z)Z
                                                                                               PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.DEEPCOPY : Z
                                                                                               LINENUMBER 45 L9
                                                                                               ALOAD 0
                                                                                               ICONST_3
                                                                                               AALOAD
                                                                                               INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean;
                                                                                               INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z
                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionDISKSYNC (Z)Z
                                                                                               PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.DISKSYNC : Z
                                                                                               LINENUMBER 46 L10
                                                                                                ALOAD 0
                                                                                                ICONST_4
                                                                                               AALOAD
                                                                                               INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean;
                                                                                               INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z
                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionFILESIZETHRESHOLD (Z)Z
                                                                                               PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.FILESIZETHRESHOLD: Z
                                                                                               LINENUMBER 47 L11
                                                                                               ALOAD 0
                                                                                               ICONST_5
                                                                                               AALOAD
                                                                                               INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean;
                                                                                               INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z
                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionFILEAGETHRESHOLD (Z)Z
                                                                                               PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.FILEAGETHRESHOLD: Z
                                                                                               LINENUMBER 48 L12
                                                                                               ALOAD 0
                                                                                               BIPUSH 6
                                                                                               AALOAD
                                                                                               INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean;
                                                                                               INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z
                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionMONITOR (Z)Z
                                                                                               PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.MONITOR: Z
                                                                                               LINENUMBER 49 L13
                                                                                               ALOAD 0
                                                                                               BIPUSH 7
                                                                                               AALOAD
                                                                                               INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean;
                                                                                               INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z
                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionJOURNALSERIALIZER (Z)Z
                                                                                               PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.JOURNALSERIALIZER: Z
                                                                                               LINENUMBER 50 L14
                                                                                               ALOAD 0
                                                                                               BIPUSH 8
                                                                                               AALOAD
                                                                                               INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean;
                                                                                               INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z
                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionSNAPSHOTSERIALIZER (Z)Z
                                                                                               PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.SNAPSHOTSERIALIZER: Z
                                                                                               LINENUMBER 60 L15
                                                                                               ICONST_0
                                                                                               ISTORE 3
                                                                                               L16
                                                                                                LINENUMBER 62 L16
                                                                                                ICONST 0
                                                                                               ISTORE 5
                                                                                                LINENUMBER 63 L17
                                                                                               ICONST 0
                                                                                               ISTORE 6
                                                                                                L18
                                                                                                LINENUMBER 64 L18
                                                                                               ICONST_0
                                                                                               ISTORE 7
                                                                                               L19
                                                                                                LINENUMBER 65 L19
                                                                                                ICONST 0
                                                                                               ISTORE 8
                                                                                                LINENUMBER 68 L20
                                                                                               GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.TRANSIENTMODE: Z
                                                                                                IFEQ L21
                                                                                                                                                     LINENUMBER 69 L22 ICONST_1
                                                                                                                                                     ISTORE 3
                                                                                                     LINENUMBER 72 L21
                                                                                                    FRAME FULL [[Ljava/lang/String; java/lang/String java/io/File I T I I I I ] [] LDC "5113a1c6-79eb-4ba0-9556-8d1ae191c2e4"
                                                                                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                                                                                    LDC "c9d31a0a-7ee5-4d91-8210-81f698314dce"
                                                                                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                                                                                    GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.CLOCK: Z
                                                                                                     IFEQ L23
                                                                                                                                                     L24
                                                                                                                                                      LINENUMBER 73 L24
                                                        L23
                                                                                                                                                     NEW org/prevayler/implementation/clock/PausableClock
                                                        LINENUMBER 76 L23
                                                                                                                                                     DUP
                                                        FRAME SAME
                                                                                                                                                     NEW org/prevayler/implementation/clock/MachineClock
                                                        NEW org/prevayler/implementation/clock/MachineClock
                                                                                                                                                     INVOKESPECIAL org/prevayler/implementation/clock/MachineClock.<init> ()V INVOKESPECIAL org/prevayler/implementation/clock/PausableClock.<init> (Lorg/prevayler/Clock;)V
                                                       INVOKESPECIAL org/prevayler/implementation/clock/MachineClock.<init>()V
                                                        ASTORE 4
                                                                                                                                                     ASTORE 4
                                                                                                                                                     GOTO L25
                                                                                                    LINENUMBER 79 L25
                                                                                                    FRAME FULL [[Ljava/lang/String; java/lang/String java/io/File I java/lang/Object I I I I ] [] LDC "c9d31a0a-7ee5-4d91-8210-81f698314dce"
                                                                                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                                                                                    LDC "6b5de341-edd3-4f12-b1ae-75951c9af0a0"
                                                                                                     INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                                                                                     GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.DEEPCOPY: Z
                                                                                                     IFEQ L26
                                                                                                                                                    L27
                                                                                                                                                     LINENUMBER 80 L27
                                                                                                                                                     ICONST_1
                                                                                                                                                     ISTORE 5
                                                                                                     LINENUMBER 83 L26
                                                                                                     FRAME SAME
                                                                                                    LDC "6b5de341-edd3-4f12-b1ae-75951c9af0a0"
                                                                                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V LDC "83ca38cb-83dd-4171-8463-53ab11a3694c"
                                                                                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.DISKSYNC : Z
                                                                                                     IFEQ L28
                                                                                                                                 LINENUMBER 84 L29
                                                                                                                                  ICONST_1
                                                                                                                                 ISTORE 6
                                                                                                     LINENUMBER 87 L28
                                                                                                     FRAME SAME
                                                                                                     LDC "83ca38cb-83dd-4171-8463-53ab11a3694c"
                                                                                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                                                                                    LDC "3efe7380-a0cf-42fe-b6c4-1be6faf3c722"
                                                                                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.FILESIZETHRESHOLD: Z
                                                                                                     IFEQ L30
                                                                                                                                                    L31
                                                                                                                                                     LINENUMBER 88 L31
                                                                                                                                                     LDC 1000000
                                                                                                                                                     ISTORE 7
                                                                                                    LINENUMBER 91 L30
                                                                                                     FRAME SAME
                                                                                                     LDC "3efe7380-a0cf-42fe-b6c4-1be6faf3c722"
                                                                                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V LDC "50e6cfaa-34ae-4136-9c92-4992105ab585"
                                                                                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.FILEAGETHRESHOLD: Z
                                                                                                     IFEQ L32
                                                                                                                                  L33
                                                                                                                                 LINENUMBER 92 L33
                                                                                                                                  LDC 1000000
                                                                                                                                 ISTORE 8
                                                                                                     LINENUMBER 95 L32
                                                                                                     FRAME SAME
                                                                                                     LDC "50e6cfaa-34ae-4136-9c92-4992105ab585"
                                                                                                     INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                                                                                     LDC "75a974f7-70c2-4ac2-9d9a-a37eaa73e836"
                                                                                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.MONITOR: Z
                                                                                                     IFEQ L34
                                                                L34
                                                                                                                                                            L35
                                                                LINENUMBER 99 L34
                                                                                                                                                            LINENUMBER 96 L35
                                                                                                                                                           NEW org/prevayler/foundation/monitor/Log4jMonitor
                                                                FRAME SAME
                                                                NEW org/prevayler/foundation/monitor/SimpleMonitor
                                                                                                                                                            INVOKESPECIAL org/prevayler/foundation/monitor/Log4jMonitor.<init>()V
                                                                INVOKESPECIAL org/prevayler/foundation/monitor/SimpleMonitor.<init>()V
                                                                                                                                                            ASTORE 9
                                                                ASTORE 9
                                                                                                                                                           GOTO L36
                                                                                         LINENUMBER 102 L36
                                                                                         FRAME APPEND [org/prevayler/foundation/monitor/LoggingMonitor]
                                                                                         LDC "75a974f7-70c2-4ac2-9d9a-a37eaa73e836"
                                                                                         INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                                                                         LDC "2a3c5128-da07-4ce4-b5ac-d6dc5bcfd0ff"
                                                                                         INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                                                                         NEW org/prevayler/PrevaylerFactory
                                                                                         INVOKESPECIAL org/prevayler/PrevaylerFactory.<init> ()V
                                                                                          ASTORE 10
                                                                                         L37
                                                                                         LINENUMBER 103 L37
                                                                                         ALOAD 10
                                                                                          NEW org/prevayler/demos/demo1/NumberKeeper
                                                                                         INVOKESPECIAL org/prevayler/demos/demo1/NumberKeeper.<init>()V
                                                                                         INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configurePrevalentSystem (Ljava/lang/Object;)V
                                                                                         L38
                                                                                         LINENUMBER 104 L38
                                                                                         ALOAD 10
                                                                                         ALOAD 1
                                                                                         INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configurePrevalenceDirectory (Ljava/lang/String;)V
                                                                                         LINENUMBER 106 L39
                                                                                         ALOAD 10
                                                                                         INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureClock (Lorg/prevayler/Clock;)V
                                                                                         LINENUMBER 107 L40
                                                                                         ALOAD 10
                                                                                         INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureMonitor (Lorg/prevayler/foundation/monitor/Monitor;)V
                                                                                         LINENUMBER 108 L41
                                                                                          ALOAD 10
                                                                                         ILOAD 3
                                                                                         INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureTransientMode (Z)V
                                                                                         LINENUMBER 109 L42
                                                                                         ALOAD 10
                                                                                         ILOAD 5
                                                                                         INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureTransactionDeepCopy (Z)V
                                                                                         LINENUMBER 110 L43
                                                                                         ALOAD 10
                                                                                         ILOAD 6
                                                                                         INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureJournalDiskSync (Z)V
                                                                                         LINENUMBER 111 L44
                                                                                         ALOAD 10
                                                                                         ILOAD 7
                                                                                         INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureJournalFileSizeThreshold (J)V
                                                                                         LINENUMBER 112 L45
                                                                                         ALOAD 10
                                                                                         ILOAD 8
                                                                                         INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureJournalFileAgeThreshold (J)V
                                                                                         LINENUMBER 115 L46
                                                                                         GETSTATIC\ org/prevayler/demos/demo1/PrimeNumbers. JOURNALSERIALIZER: Z
                                                                                         IFEQ L47
  L47
  LINENUMBER 119 L47
                                                                                                                                                           LINENUMBER 116 L48
  FRAME APPEND [org/prevayler/PrevaylerFactory]
                                                                                                                                                          ALOAD 10
                                                                                                                                                          NEW org/prevayler/foundation/serialization/XStreamSerializer
  ALOAD 10
  NEW org/prevayler/foundation/serialization/JavaSerializer
                                                                                                                                                          INVOKESPECIAL\ org/prevayler/foundation/serialization/XStreamSerializer. < init>() Value of the property of 
  INVOKESPECIAL org/prevayler/foundation/serialization/JavaSerializer.<init> ()V INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureJournalSerializer (Lorg/prevayler/foundation/serialization/JavaSerializer;)V
                                                                                                                                                          INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureJournalSerializer (Lorg/prevayler/foundation/serialization/XStreamSerializer;)V
                                                                                                                                                          GOTO L49
                                                                                                     L49
                                                                                                     LINENUMBER 122 L49
                                                                                                     FRAME SAME
                                                                                                     LDC "2a3c5128-da07-4ce4-b5ac-d6dc5bcfd0ff"
                                                                                                     INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                                                                                     LDC "b8fe9764-9654-4274-a43c-e9ca98d54408"
                                                                                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                                                                                     GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.SNAPSHOTSERIALIZER: Z
                                                                                                     IFEQ L50
LINENUMBER 126 L50
                                                                                                                                                           LINENUMBER 123 L51
FRAME SAME
                                                                                                                                                          ALOAD 10
ALOAD 10
                                                                                                                                                          NEW org/prevayler/foundation/serialization/XStreamSerializer
NEW org/prevayler/foundation/serialization/JavaSerializer
                                                                                                                                                          INVOKESPECIAL org/prevayler/foundation/serialization/XStreamSerializer.<init> ()V INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureSnapshotSerializer (Lorg/prevayler/foundation/serialization/XStreamSerializer;)V
INVOKESPECIAL org/prevayler/foundation/serialization/JavaSerializer.<init> ()V
INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureSnapshotSerializer (Lorg/prevayler/foundation/serialization/JavaSerializer;)V
                                                                                                                                                          GOTO L52
                                                                                                  LINENUMBER 132 L52
                                                                                                  FRAME SAME
                                                                                                  LDC "b8fe9764-9654-4274-a43c-e9ca98d54408"
                                                                                                  INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                                                                                  INVOKEVIRTUAL org/prevayler/PrevaylerFactory.create ()Lorg/prevayler/Prevayler;
                                                                                                  ASTORE 11
                                                                                                  L53
                                                                                                  LINENUMBER 133 L53
                                                                                                  NEW org/prevayler/demos/demo1/PrimeCalculator
                                                                                                  DUP
                                                                                                  ALOAD 11
                                                                                                  INVOKESPECIAL org/prevayler/demos/demo1/PrimeCalculator.<init> (Lorg/prevayler/Prevayler;)V
                                                                                                  INVOKEVIRTUAL org/prevayler/demos/demo1/PrimeCalculator.start ()V
                                                                                                  LINENUMBER 134 L54
                                                                                                  RETURN
                                                                                                                                                      exit
```