```
TRYCATCHBLOCK L0 L1 L2 null
TRYCATCHBLOCK L2 L3 L2 null
L4
LINENUMBER 1300 L4
LDC "91e25413-63bd-420c-84ef-8ba59259b6e8"
INVOKESTATIC edu/cmu/cs/mvelezce/java/execute/region/RegionsManager.enter (Ljava/lang/String;)V
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.dbImpl : Lcom/sleepycat/je/dbi/DatabaseImpl;
INVOKEVIRTUAL com/sleepycat/je/dbi/DatabaseImpl.getEnv ()Lcom/sleepycat/je/dbi/EnvironmentImpl;
ASTORE 7
L5
LINENUMBER 1301 L5
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.dbImpl : Lcom/sleepycat/je/dbi/DatabaseImpl;
INVOKEVIRTUAL com/sleepycat/je/dbi/DatabaseImpl.getTree ()Lcom/sleepycat/je/tree/Tree;
ASTORE 8
L6
LINENUMBER 1303 L6
ACONST_NULL
ASTORE 10
L7
LINENUMBER 1311 L7
ALOAD 0
ALOAD 2
INVOKEVIRTUAL com/sleepycat/je/tree/LN.getData ()[B
INVOKESPECIAL com/sleepycat/je/dbi/CursorImpl.shouldEmbedLN ([B)Z
IFEQ L8
```

```
L9
LINENUMBER 1312 L9
ALOAD 2
INVOKEVIRTUAL com/sleepycat/je/tree/LN.getData ()[B
ASTORE 16
L10
LINENUMBER 1313 L10
ICONST_1
ISTORE 15
L11
GOTO L12
```

```
L8
LINENUMBER 1315 L8
FRAME FULL [com/sleepycat/je/dbi/CursorImpl [B com/sleepycat/je/tree/LN com/sleepycat/je/dbi/ExpirationInfo I com/sleepycat/je/DatabaseEntry com/sleepycat/je/log/ReplicationContext com/sleepycat/je/dbi/EnvironmentImpl com/sleepycat/je/tree/Tree T N] []
ICONST_0
ISTORE 15
L13
LINENUMBER 1316 L13
ACONST_NULL
ASTORE 16
```

```
L12
LINENUMBER 1319 L12
FRAME FULL [com/sleepycat/je/dbi/CursorImpl [B com/sleepycat/je/tree/LN com/sleepycat/je/dbi/ExpirationInfo I com/sleepycat/je/DatabaseEntry com/sleepycat/je/log/ReplicationContext com/sleepycat/je/dbi/EnvironmentImpl com/sleepycat/je/tree/Tree T N T T T T I [B] []
ALOAD 3
IFNONNULL L14
```

```
L15
LINENUMBER 1320 L15
GETSTATIC com/sleepycat/je/dbi/ExpirationInfo.DEFAULT : Lcom/sleepycat/je/dbi/ExpirationInfo;
ASTORE 3
```

```
L14
LINENUMBER 1337 L14
FRAME SAME
ALOAD 0
ALOAD 8
ALOAD 1
ALOAD 0
INVOKEVIRTUAL com/sleepycat/je/dbi/CursorImpl.getCacheMode ()Lcom/sleepycat/je/CacheMode;
INVOKEVIRTUAL com/sleepycat/je/tree/Tree.findBinForInsert ([BLcom/sleepycat/je/CacheMode;)Lcom/sleepycat/je/tree/BIN;
PUTFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
L16
LINENUMBER 1350 L16
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.locker : Lcom/sleepycat/je/txn/Locker;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.dbImpl : Lcom/sleepycat/je/dbi/DatabaseImpl;
INVOKEVIRTUAL com/sleepycat/je/txn/Locker.preLogWithoutLock (Lcom/sleepycat/je/dbi/DatabaseImpl;)V
L17
LINENUMBER 1364 L17
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
ALOAD 2
ALOAD 1
ALOAD 16
LDC -1
ILOAD 4
INVOKEVIRTUAL com/sleepycat/je/tree/BIN.insertEntry1 (Lcom/sleepycat/je/tree/Node;[B[BJZ)I
ISTORE 17
L18
LINENUMBER 1367 L18
ILOAD 17
LDC 131072
IAND
IFNE L19
```

```
L20
LINENUMBER 1373 L20
ICONST_1
ISTORE 11
L21
LINENUMBER 1375 L21
ALOAD 0
ILOAD 17
INVOKEVIRTUAL com/sleepycat/je/dbi/CursorImpl.setIndex (I)V
L22
LINENUMBER 1376 L22
ALOAD 0
INVOKEVIRTUAL com/sleepycat/je/dbi/CursorImpl.addCursor ()V
L23
LINENUMBER 1377 L23
ALOAD 0
INVOKESPECIAL com/sleepycat/je/dbi/CursorImpl.setInitialized ()V
L24
LINENUMBER 1385 L24
ALOAD 0
GETSTATIC com/sleepycat/je/txn/LockType.WRITE : Lcom/sleepycat/je/txn/LockType;
ICONST_1
ICONST_0
INVOKEVIRTUAL com/sleepycat/je/dbi/CursorImpl.lockLN (Lcom/sleepycat/je/txn/LockType;ZZ)Lcom/sleepycat/je/dbi/CursorImpl$LockStanding;
ASTORE 10
L25
LINENUMBER 1387 L25
GETSTATIC com/sleepycat/je/dbi/CursorImpl.$assertionsDisabled : Z
IFNE L26
```

```
L19
LINENUMBER 1414 L19
FRAME FULL [com/sleepycat/je/dbi/CursorImpl [B com/sleepycat/je/tree/LN com/sleepycat/je/dbi/ExpirationInfo I com/sleepycat/je/DatabaseEntry com/sleepycat/je/log/ReplicationContext com/sleepycat/je/dbi/EnvironmentImpl com/sleepycat/je/tree/Tree T N T T T T I [B I] []
ICONST_0
ISTORE 11
L33
LINENUMBER 1415 L33
ILOAD 15
ISTORE 14
L34
LINENUMBER 1416 L34
LDC -1
LSTORE 12
L35
LINENUMBER 1418 L35
ALOAD 0
ILOAD 17
LDC -131073
IAND
DUP
ISTORE 17
INVOKEVIRTUAL com/sleepycat/je/dbi/CursorImpl.setIndex (I)V
L36
LINENUMBER 1419 L36
ALOAD 0
INVOKEVIRTUAL com/sleepycat/je/dbi/CursorImpl.addCursor ()V
L37
LINENUMBER 1420 L37
ALOAD 0
INVOKESPECIAL com/sleepycat/je/dbi/CursorImpl.setInitialized ()V
L38
LINENUMBER 1423 L38
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
INVOKESTATIC com/sleepycat/je/dbi/CursorImpl$LockStanding.prepareForInsert (Lcom/sleepycat/je/tree/BIN;)Lcom/sleepycat/je/txn/WriteLockInfo;
ASTORE 9
```

```
ALOAD 10
IFNONNULL L26
```

```
L26
LINENUMBER 1389 L26
FRAME FULL [com/sleepycat/je/dbi/CursorImpl [B com/sleepycat/je/tree/LN com/sleepycat/je/dbi/ExpirationInfo I com/sleepycat/je/DatabaseEntry com/sleepycat/je/log/ReplicationContext com/sleepycat/je/dbi/EnvironmentImpl com/sleepycat/je/tree/Tree T com/sleepycat/je/dbi/CursorImpl$LockStanding I T T T I [B I] []
ALOAD 10
INVOKEVIRTUAL com/sleepycat/je/dbi/CursorImpl$LockStanding.recordExists ()Z
IFEQ L27
```

```
L27
LINENUMBER 1397 L27
FRAME SAME
ALOAD 10
INVOKESTATIC com/sleepycat/je/dbi/CursorImpl$LockStanding.access$000 (Lcom/sleepycat/je/dbi/CursorImpl$LockStanding;)J
LSTORE 12
L29
LINENUMBER 1398 L29
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.index : I
INVOKEVIRTUAL com/sleepycat/je/tree/BIN.isEmbeddedLN (I)Z
ISTORE 14
L30
LINENUMBER 1407 L30
ALOAD 10
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.index : I
INVOKEVIRTUAL com/sleepycat/je/dbi/CursorImpl$LockStanding.prepareForUpdate (Lcom/sleepycat/je/tree/BIN;I)Lcom/sleepycat/je/txn/WriteLockInfo;
ASTORE 9
L31
GOTO L32
```

```
NEW java/lang/AssertionError
DUP
INVOKESPECIAL java/lang/AssertionError.<init> ()V
LDC "91e25413-63bd-420c-84ef-8ba59259b6e8"
INVOKESTATIC edu/cmu/cs/mvelezce/java/execute/region/RegionsManager.exit (Ljava/lang/String;)V
ATHROW
```

```
L32
LINENUMBER 1431 L32
FRAME FULL [com/sleepycat/je/dbi/CursorImpl [B com/sleepycat/je/tree/LN com/sleepycat/je/dbi/ExpirationInfo I com/sleepycat/je/DatabaseEntry com/sleepycat/je/log/ReplicationContext com/sleepycat/je/dbi/EnvironmentImpl com/sleepycat/je/tree/Tree com/sleepycat/je/txn/WriteLockInfo com/sleepycat/je/dbi/CursorImpl$LockStanding I J I I [B I] []
ACONST_NULL
ASTORE 18
```

```
L28
LINENUMBER 1390 L28
NEW com/sleepycat/je/utilint/Pair
DUP
ALOAD 10
ACONST_NULL
INVOKESPECIAL com/sleepycat/je/utilint/Pair.<init> (Ljava/lang/Object;Ljava/lang/Object;)V
LDC "91e25413-63bd-420c-84ef-8ba59259b6e8"
INVOKESTATIC edu/cmu/cs/mvelezce/java/execute/region/RegionsManager.exit (Ljava/lang/String;)V
ARETURN
```

```
L0
LINENUMBER 1433 L0
ALOAD 2
ALOAD 7
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.dbImpl : Lcom/sleepycat/je/dbi/DatabaseImpl;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.locker : Lcom/sleepycat/je/txn/Locker;
ALOAD 9
ILOAD 15
ALOAD 1
ALOAD 3
GETFIELD com/sleepycat/je/dbi/ExpirationInfo.expiration : I
ALOAD 3
GETFIELD com/sleepycat/je/dbi/ExpirationInfo.expirationInHours : Z
ILOAD 14
LLOAD 12
ICONST_0
ICONST_1
ALOAD 6
INVOKEVIRTUAL com/sleepycat/je/tree/LN.optionalLog (Lcom/sleepycat/je/dbi/EnvironmentImpl;Lcom/sleepycat/je/dbi/DatabaseImpl;Lcom/sleepycat/je/txn/Locker;Lcom/sleepycat/je/txn/WriteLockInfo;Z[BIZZJIZLcom/sleepycat/je/log/ReplicationContext;)Lcom/sleepycat/je/log/LogItem;
ASTORE 18
```

```
L1
LINENUMBER 1440 L1
ALOAD 18
IFNONNULL L39
```

```
L2
LINENUMBER 1440 L2
FRAME FULL [com/sleepycat/je/dbi/CursorImpl [B com/sleepycat/je/tree/LN com/sleepycat/je/dbi/ExpirationInfo I com/sleepycat/je/DatabaseEntry com/sleepycat/je/log/ReplicationContext com/sleepycat/je/dbi/EnvironmentImpl com/sleepycat/je/tree/Tree com/sleepycat/je/txn/WriteLockInfo com/sleepycat/je/dbi/CursorImpl$LockStanding I J I I [B I com/sleepycat/je/log/LogItem] [java/lang/Throwable]
ASTORE 19
```

```
ILOAD 11
IFNE L39
```

```
L3
ALOAD 18
IFNONNULL L41
```

```
L40
LINENUMBER 1450 L40
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.index : I
INVOKEVIRTUAL com/sleepycat/je/tree/BIN.setKnownDeletedAndEvictLN (I)V
GOTO L39
```

```
ILOAD 11
IFNE L41
```

```
L42
LINENUMBER 1450 L42
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.index : I
INVOKEVIRTUAL com/sleepycat/je/tree/BIN.setKnownDeletedAndEvictLN (I)V
```

```
L39
LINENUMBER 1454 L39
FRAME CHOP 1
GETSTATIC com/sleepycat/je/dbi/CursorImpl.$assertionsDisabled : Z
IFNE L43
```

```
L41
LINENUMBER 1452 L41
FRAME APPEND [java/lang/Throwable]
ALOAD 19
LDC "91e25413-63bd-420c-84ef-8ba59259b6e8"
INVOKESTATIC edu/cmu/cs/mvelezce/java/execute/region/RegionsManager.exit (Ljava/lang/String;)V
ATHROW
```

```
ALOAD 18
IFNONNULL L43
```

```
L43
LINENUMBER 1456 L43
FRAME SAME
ALOAD 10
IFNONNULL L44
```

```
L45
LINENUMBER 1461 L45
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.index : I
ALOAD 18
GETFIELD com/sleepycat/je/log/LogItem.lsn : J
ALOAD 2
L46
LINENUMBER 1462 L46
INVOKEVIRTUAL com/sleepycat/je/tree/LN.getVLSNSequence ()J
ALOAD 18
GETFIELD com/sleepycat/je/log/LogItem.size : I
L47
LINENUMBER 1461 L47
INVOKEVIRTUAL com/sleepycat/je/tree/BIN.updateEntry (IJJI)V
L48
LINENUMBER 1465 L48
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.index : I
ALOAD 3
GETFIELD com/sleepycat/je/dbi/ExpirationInfo.expiration : I
ALOAD 3
GETFIELD com/sleepycat/je/dbi/ExpirationInfo.expirationInHours : Z
INVOKEVIRTUAL com/sleepycat/je/tree/BIN.setExpiration (IIZ)V
L49
LINENUMBER 1483 L49
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.index : I
INVOKEVIRTUAL com/sleepycat/je/tree/BIN.getTarget (I)Lcom/sleepycat/je/tree/Node;
ALOAD 2
IF_ACMPNE L50
```

```
L44
LINENUMBER 1495 L44
FRAME SAME
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.index : I
ALOAD 2
ALOAD 18
GETFIELD com/sleepycat/je/log/LogItem.lsn : J
ALOAD 18
GETFIELD com/sleepycat/je/log/LogItem.size : I
ALOAD 1
ALOAD 16
ALOAD 3
GETFIELD com/sleepycat/je/dbi/ExpirationInfo.expiration : I
ALOAD 3
GETFIELD com/sleepycat/je/dbi/ExpirationInfo.expirationInHours : Z
INVOKEVIRTUAL com/sleepycat/je/tree/BIN.insertRecord (ILcom/sleepycat/je/tree/LN;JI[B[BIZ)V
```

```
L51
LINENUMBER 1484 L51
ALOAD 2
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
INVOKEVIRTUAL com/sleepycat/je/tree/LN.addExtraMarshaledMemorySize (Lcom/sleepycat/je/tree/BIN;)V
GOTO L50
```

```
NEW java/lang/AssertionError
DUP
INVOKESPECIAL java/lang/AssertionError.<init> ()V
LDC "91e25413-63bd-420c-84ef-8ba59259b6e8"
INVOKESTATIC edu/cmu/cs/mvelezce/java/execute/region/RegionsManager.exit (Ljava/lang/String;)V
ATHROW
```

```
L50
LINENUMBER 1500 L50
FRAME SAME
ALOAD 5
IFNULL L52
```

```
L53
LINENUMBER 1501 L53
ALOAD 5
ACONST_NULL
INVOKEVIRTUAL com/sleepycat/je/DatabaseEntry.setData ([B)V
L54
LINENUMBER 1502 L54
ALOAD 2
ALOAD 5
INVOKEVIRTUAL com/sleepycat/je/tree/LN.setEntry (Lcom/sleepycat/je/DatabaseEntry;)V
```

```
L52
LINENUMBER 1506 L52
FRAME SAME
ALOAD 0
INVOKESPECIAL com/sleepycat/je/dbi/CursorImpl.setInitialized ()V
L55
LINENUMBER 1509 L55
ALOAD 0
ALOAD 2
INVOKEVIRTUAL com/sleepycat/je/tree/LN.getVLSNSequence ()J
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.index : I
INVOKEVIRTUAL com/sleepycat/je/tree/BIN.getLsn (I)J
INVOKESPECIAL com/sleepycat/je/dbi/CursorImpl.setCurrentVersion (JJ)V
L56
LINENUMBER 1510 L56
ALOAD 0
INVOKESPECIAL com/sleepycat/je/dbi/CursorImpl.setStorageSize ()V
L57
LINENUMBER 1517 L57
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.dbImpl : Lcom/sleepycat/je/dbi/DatabaseImpl;
INVOKEVIRTUAL com/sleepycat/je/dbi/DatabaseImpl.getSortedDuplicates ()Z
IFEQ L58
```

```
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.dbImpl : Lcom/sleepycat/je/dbi/DatabaseImpl;
L59
LINENUMBER 1518 L59
INVOKEVIRTUAL com/sleepycat/je/dbi/DatabaseImpl.isDeferredWriteMode ()Z
IFNE L58
```

```
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.index : I
L60
LINENUMBER 1519 L60
INVOKEVIRTUAL com/sleepycat/je/tree/BIN.getTarget (I)Lcom/sleepycat/je/tree/Node;
IFNULL L58
```

```
L61
LINENUMBER 1520 L61
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.index : I
INVOKEVIRTUAL com/sleepycat/je/tree/BIN.evictLN (I)V
```

```
L58
LINENUMBER 1523 L58
FRAME SAME
ALOAD 0
GETSTATIC java/util/logging/Level.FINER : Ljava/util/logging/Level;
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.bin : Lcom/sleepycat/je/tree/BIN;
ALOAD 18
GETFIELD com/sleepycat/je/log/LogItem.lsn : J
ALOAD 0
GETFIELD com/sleepycat/je/dbi/CursorImpl.index : I
INVOKESPECIAL com/sleepycat/je/dbi/CursorImpl.traceInsert (Ljava/util/logging/Level;Lcom/sleepycat/je/tree/BIN;JI)V
L62
LINENUMBER 1525 L62
NEW com/sleepycat/je/utilint/Pair
DUP
ALOAD 10
ALOAD 3
GETFIELD com/sleepycat/je/dbi/ExpirationInfo.expiration : I
ALOAD 3
GETFIELD com/sleepycat/je/dbi/ExpirationInfo.expirationInHours : Z
L63
LINENUMBER 1527 L63
INVOKESTATIC com/sleepycat/je/DbInternal.makeResult (IZ)Lcom/sleepycat/je/OperationResult;
INVOKESPECIAL com/sleepycat/je/utilint/Pair.<init> (Ljava/lang/Object;Ljava/lang/Object;)V
L64
LINENUMBER 1525 L64
LDC "91e25413-63bd-420c-84ef-8ba59259b6e8"
INVOKESTATIC edu/cmu/cs/mvelezce/java/execute/region/RegionsManager.exit (Ljava/lang/String;)V
ARETURN
L65
```