```
entry

L0
LINENUMBER 448 L0
LDC "c41b237f-5cc0-4cfe-a601-1ef45cd9eb4d"
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
BIPUSH 29
ISTORE 7
L1
LINENUMBER 449 L1
BIPUSH 29
ISTORE 8

L2
LINENUMBER 451 L2
FRAME APPEND [I I]
ILOAD 7
IFLE L3

ALOAD 1
SIPUSH 256
ILOAD 7
IADD
IALOAD
IFNE L3

L3
LINENUMBER 454 L3
FRAME SAME
ILOAD 8
IFLE L5

L4
LINENUMBER 452 L4
IINC 7 -1
GOTO L2

ALOAD 2
ILOAD 8
IALOAD
IFNE L5

L5
LINENUMBER 458 L5
FRAME SAME
ILOAD 7
SIPUSH 258
IADD
ILOAD 8
IADD
ISTORE 9
L7
LINENUMBER 459 L7
ALOAD 0
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.i320b : [I
ASTORE 10
L8
LINENUMBER 460 L8
ALOAD 1
ICONST_0
ALOAD 10
ICONST_0
SIPUSH 257
ILOAD 7
IADD
INVOKESTATIC java/lang/System.arraycopy (Ljava/lang/Object;ILjava/lang/Object;II)V
L9
LINENUMBER 461 L9
ALOAD 2
ICONST_0
ALOAD 10
SIPUSH 257
ILOAD 7
IADD
ILOAD 8
ICONST_1
IADD
INVOKESTATIC java/lang/System.arraycopy (Ljava/lang/Object;ILjava/lang/Object;II)V
L10
LINENUMBER 463 L10
ICONST_0
ISTORE 11
L11
LINENUMBER 464 L11
ALOAD 0
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.i320a : [I
ASTORE 12
L12
LINENUMBER 465 L12
ALOAD 0
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.i320c : [I
ASTORE 13
L13
LINENUMBER 467 L13
ICONST_0
ISTORE 14

L6
LINENUMBER 455 L6
IINC 8 -1
GOTO L3

L14
FRAME FULL [optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie [I [I I I I optimizer/com/googlecode/pngtastic/core/processing/zopfli/Buffer I I I [I I [I [I I] []
ILOAD 14
ILOAD 9
IF_ICMPGE L15

L15
LINENUMBER 515 L15
FRAME CHOP 2
ALOAD 0
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.i19a : [I
ASTORE 14
L60
LINENUMBER 516 L60
GETSTATIC optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.intZeroes : [I
ICONST_0
ALOAD 14
ICONST_0
BIPUSH 19
INVOKESTATIC java/lang/System.arraycopy (Ljava/lang/Object;ILjava/lang/Object;II)V
L61
LINENUMBER 517 L61
ICONST_0
ISTORE 15

L16
LINENUMBER 468 L16
ICONST_1
ISTORE 15
L17
LINENUMBER 469 L17
ALOAD 10
ILOAD 14
IALOAD
ISTORE 16
L18
LINENUMBER 470 L18
ILOAD 3
IFNE L19

L62
FRAME FULL [optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie [I [I I I I optimizer/com/googlecode/pngtastic/core/processing/zopfli/Buffer I I I [I I [I [I [I I] []
ILOAD 15
ILOAD 11
IF_ICMPGE L63

ILOAD 16
IFNE L20

L63
LINENUMBER 521 L63
FRAME SAME
ALOAD 0
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.i19b : [I
ASTORE 15
L66
LINENUMBER 522 L66
GETSTATIC optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.intZeroes : [I
ICONST_0
ALOAD 15
ICONST_0
BIPUSH 19
INVOKESTATIC java/lang/System.arraycopy (Ljava/lang/Object;ILjava/lang/Object;II)V
L67
LINENUMBER 523 L67
ALOAD 0
ALOAD 14
BIPUSH 7
ALOAD 15
INVOKESTATIC optimizer/com/googlecode/pngtastic/core/processing/zopfli/Katajainen.lengthLimitedCodeLengths (Loptimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie;[II[I)V
L68
LINENUMBER 524 L68
ALOAD 0
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.i19c : [I
ASTORE 16
L69
LINENUMBER 525 L69
ALOAD 15
BIPUSH 19
BIPUSH 7
ALOAD 16
ALOAD 0
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.i16a : [I
ALOAD 0
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.i16b : [I
INVOKESTATIC optimizer/com/googlecode/pngtastic/core/processing/zopfli/Deflate.lengthsToSymbols ([III[I[I[I)V
L70
LINENUMBER 527 L70
GETSTATIC optimizer/com/googlecode/pngtastic/core/processing/zopfli/Util.ORDER : [I
ASTORE 17
L71
LINENUMBER 528 L71
BIPUSH 15
ISTORE 18

L64
LINENUMBER 518 L64
ALOAD 14
ALOAD 12
ILOAD 15
IALOAD
DUP2
IALOAD
ICONST_1
IADD
IASTORE
L65
LINENUMBER 517 L65
IINC 15 1
GOTO L62

ILOAD 4
IFNE L19

L84
LINENUMBER 542 L84
ALOAD 16
ALOAD 12
ILOAD 19
IALOAD
IALOAD
ISTORE 20
L85
LINENUMBER 543 L85
ALOAD 6
ILOAD 20
ALOAD 15
ALOAD 12
ILOAD 19
IALOAD
IALOAD
INVOKEVIRTUAL optimizer/com/googlecode/pngtastic/core/processing/zopfli/Buffer.addHuffmanBits (II)V
L86
LINENUMBER 544 L86
ALOAD 12
ILOAD 19
IALOAD
BIPUSH 16
IF_ICMPNE L87

L72
LINENUMBER 529 L72
FRAME FULL [optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie [I [I I I I optimizer/com/googlecode/pngtastic/core/processing/zopfli/Buffer I I I [I I [I [I [I [I [I [I I] []
ILOAD 18
IFLE L73

ILOAD 5
IFEQ L20

ALOAD 14
ALOAD 17
ILOAD 18
ICONST_3
IADD
IALOAD
IALOAD
IFNE L73

L19
LINENUMBER 471 L19
FRAME APPEND [I I]
ILOAD 14
ICONST_1
IADD
ISTORE 17

L87
LINENUMBER 547 L87
FRAME APPEND [I]
ALOAD 12
ILOAD 19
IALOAD
BIPUSH 17
IF_ICMPNE L90

L73
LINENUMBER 533 L73
FRAME SAME
ALOAD 6
ILOAD 7
ICONST_5
INVOKEVIRTUAL optimizer/com/googlecode/pngtastic/core/processing/zopfli/Buffer.addBits (II)V
L75
LINENUMBER 534 L75
ALOAD 6
ILOAD 8
ICONST_5
INVOKEVIRTUAL optimizer/com/googlecode/pngtastic/core/processing/zopfli/Buffer.addBits (II)V
L76
LINENUMBER 535 L76
ALOAD 6
ILOAD 18
ICONST_4
INVOKEVIRTUAL optimizer/com/googlecode/pngtastic/core/processing/zopfli/Buffer.addBits (II)V
L77
LINENUMBER 537 L77
ICONST_0
ISTORE 19

L74
LINENUMBER 530 L74
IINC 18 -1
GOTO L72

L90
LINENUMBER 550 L90
FRAME SAME
ALOAD 12
ILOAD 19
IALOAD
BIPUSH 18
IF_ICMPNE L89

L21
FRAME APPEND [I]
ILOAD 17
ILOAD 9
IF_ICMPGE L20

L88
LINENUMBER 545 L88
ALOAD 6
ALOAD 13
ILOAD 19
IALOAD
ICONST_2
INVOKEVIRTUAL optimizer/com/googlecode/pngtastic/core/processing/zopfli/Buffer.addBits (II)V
GOTO L89

L92
LINENUMBER 551 L92
ALOAD 6
ALOAD 13
ILOAD 19
IALOAD
BIPUSH 7
INVOKEVIRTUAL optimizer/com/googlecode/pngtastic/core/processing/zopfli/Buffer.addBits (II)V

L91
LINENUMBER 548 L91
ALOAD 6
ALOAD 13
ILOAD 19
IALOAD
ICONST_3
INVOKEVIRTUAL optimizer/com/googlecode/pngtastic/core/processing/zopfli/Buffer.addBits (II)V
GOTO L89

L78
FRAME APPEND [I]
ILOAD 19
ILOAD 18
ICONST_4
IADD
IF_ICMPGE L79

ILOAD 16
ALOAD 10
ILOAD 17
IALOAD
IF_ICMPNE L20

L89
LINENUMBER 541 L89
FRAME SAME
IINC 19 1
GOTO L82

L79
LINENUMBER 541 L79
FRAME SAME
ICONST_0
ISTORE 19

L80
LINENUMBER 538 L80
ALOAD 6
ALOAD 15
ALOAD 17
ILOAD 19
IALOAD
IALOAD
ICONST_3
INVOKEVIRTUAL optimizer/com/googlecode/pngtastic/core/processing/zopfli/Buffer.addBits (II)V
L81
LINENUMBER 537 L81
IINC 19 1
GOTO L78

L22
LINENUMBER 472 L22
IINC 15 1
L23
LINENUMBER 471 L23
IINC 17 1
GOTO L21

L20
LINENUMBER 475 L20
FRAME CHOP 1
ILOAD 14
ILOAD 15
ICONST_1
ISUB
IADD
ISTORE 14
L24
LINENUMBER 477 L24
ILOAD 16
IFNE L25

L82
FRAME SAME
ILOAD 19
ILOAD 11
IF_ICMPGE L83

L83
LINENUMBER 554 L83
FRAME CHOP 1
LDC "c41b237f-5cc0-4cfe-a601-1ef45cd9eb4d"
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
RETURN

exit

ILOAD 15
ICONST_2
IF_ICMPLE L25

L26
LINENUMBER 478 L26
ILOAD 5
IFEQ L27

L28
LINENUMBER 479 L28
FRAME SAME
ILOAD 15
BIPUSH 10
IF_ICMPLE L27

L29
LINENUMBER 480 L29
ILOAD 15
SIPUSH 138
IF_ICMPLE L30

L27
LINENUMBER 486 L27
FRAME SAME
ILOAD 4
IFEQ L25

SIPUSH 138
GOTO L31

L30
FRAME SAME
ILOAD 15

L36
LINENUMBER 487 L36
FRAME SAME
ILOAD 15
ICONST_2
IF_ICMPLE L25

L31
FRAME SAME1 I
ISTORE 17
L32
LINENUMBER 481 L32
ALOAD 12
ILOAD 11
BIPUSH 18
IASTORE
L33
LINENUMBER 482 L33
ALOAD 13
ILOAD 11
IINC 11 1
ILOAD 17
BIPUSH 11
ISUB
IASTORE
L34
LINENUMBER 483 L34
ILOAD 15
ILOAD 17
ISUB
ISTORE 15
L35
LINENUMBER 484 L35
GOTO L28

L37
LINENUMBER 488 L37
ILOAD 15
BIPUSH 10
IF_ICMPLE L38

L25
LINENUMBER 496 L25
FRAME SAME
ILOAD 3
IFEQ L44

L38
FRAME SAME
ILOAD 15

BIPUSH 10
GOTO L39

ILOAD 15
ICONST_3
IF_ICMPLE L44

L39
FRAME SAME1 I
ISTORE 17
L40
LINENUMBER 489 L40
ALOAD 12
ILOAD 11
BIPUSH 17
IASTORE
L41
LINENUMBER 490 L41
ALOAD 13
ILOAD 11
IINC 11 1
ILOAD 17
ICONST_3
ISUB
IASTORE
L42
LINENUMBER 491 L42
ILOAD 15
ILOAD 17
ISUB
ISTORE 15
L43
LINENUMBER 492 L43
GOTO L36

L45
LINENUMBER 497 L45
IINC 15 -1
L46
LINENUMBER 498 L46
ALOAD 12
ILOAD 11
ILOAD 16
IASTORE
L47
LINENUMBER 499 L47
ALOAD 13
ILOAD 11
IINC 11 1
ICONST_0
IASTORE

L48
LINENUMBER 500 L48
FRAME SAME
ILOAD 15
ICONST_2
IF_ICMPLE L44

L44
LINENUMBER 508 L44
FRAME SAME
ILOAD 15
IFEQ L56

L49
LINENUMBER 501 L49
ILOAD 15
BIPUSH 6
IF_ICMPLE L50

L57
LINENUMBER 509 L57
ALOAD 12
ILOAD 11
ILOAD 16
IASTORE
L58
LINENUMBER 510 L58
ALOAD 13
ILOAD 11
IINC 11 1
ICONST_0
IASTORE
L59
LINENUMBER 511 L59
IINC 15 -1
GOTO L44

L56
LINENUMBER 467 L56
FRAME SAME
IINC 14 1
GOTO L14

BIPUSH 6
GOTO L51

L50
FRAME SAME
ILOAD 15

L51
FRAME SAME1 I
ISTORE 17
L52
LINENUMBER 502 L52
ALOAD 12
ILOAD 11
BIPUSH 16
IASTORE
L53
LINENUMBER 503 L53
ALOAD 13
ILOAD 11
IINC 11 1
ILOAD 17
ICONST_3
ISUB
IASTORE
L54
LINENUMBER 504 L54
ILOAD 15
ILOAD 17
ISUB
ISTORE 15
L55
LINENUMBER 505 L55
GOTO L48
```