CLConstants.java

```
// Copyright 2013 Bill Campbell, Swami Iyer and Bahar Akbal-Delibas
1
2
3
    package jminusminus;
4
5
     * Constants used within CL*.java files.
6
7
8
9
    public class CLConstants {
10
11
        * Magic number (0xCAFEBABE) identifying the class file format.
12
13
14
        public static final long MAGIC = 3405691582L;
15
16
        /** Major version for the class files that j-- compiles. */
       public static final int MAJOR_VERSION = 49;
17
18
        /** Minor version for the class files that j-- compiles. */
19
20
       public static final int MINOR_VERSION = 0;
21
        /** public access flag. */
22
       public static final int ACC_PUBLIC = 0x0001;
23
24
        /** private access flag. */
25
        public static final int ACC PRIVATE = 0x0002;
26
        Assignment Project Exam Help
27
28
        public static final int ACC_PROTECTED = 0x0004;
29
       public statistips int powerodetecom
31
34
        /** final access flag. */
       public static final int ACC FINAL = 0x0010;
/** super access flag. ** Chat pow
35
                                    inat powcoder
37
        public static final int ACC_SUPER = 0x0020;
39
        /** synchronized access flag. */
40
41
       public static final int ACC_SYNCHRONIZED = 0x0020;
42
        /** volatile access flag. */
43
       public static final int ACC_VOLATILE = 0x0040;
44
45
        /** bridge access flag. */
46
47
       public static final int ACC_BRIDGE = 0x0040;
48
        /** transient access flag. */
50
        public static final int ACC_TRANSIENT = 0x0080;
51
52
        /** varargs access flag. */
        public static final int ACC_VARARGS = 0x0080;
54
        /** native access flag. */
        public static final int ACC_NATIVE = 0x0100;
58
        /** interface access flag. */
        public static final int ACC_INTERFACE = 0x0200;
59
61
        /** abstract access flag. */
62
        public static final int ACC_ABSTRACT = 0x0400;
63
        /** strict access flag. */
64
65
        public static final int ACC_STRICT = 0x0800;
66
```

```
67
        /** synthetic access flag. */
68
        public static final int ACC_SYNTHETIC = 0x1000;
69
        /** annotation access flag. */
        public static final int ACC_ANNOTATION = 0x2000;
71
72
73
        /** enum access flag. */
74
        public static final int ACC_ENUM = 0x4000;
75
        /** Identifies CONSTANT_Utf8_info constant pool structure. */
76
        public static final short CONSTANT_Utf8 = 1;
77
        /** Identifies CONSTANT_Integer_info constant pool structure. */
79
        public static final short CONSTANT_Integer = 3;
81
        /** Identifies CONSTANT_Float_info constant pool structure. */
        public static final short CONSTANT_Float = 4;
84
        /** Identifies CONSTANT_Long_info constant pool structure. */
        public static final short CONSTANT_Long = 5;
        /** Identifies CONSTANT_Double_info constant pool structure. */
        public static final short CONSTANT_Double = 6;
        /** Identifies CONSTANT Class info constant pool structure. */
91
        public static final short CONSTANT_Class = 7;
        /** Identifies CONSTANT_String_info constant pool structure. */
94
        public static final short CONSTANT_String = 8;

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/** Identifies CONSTANT_Fieldref_info constant poot structure.
97
        public static final short CONSTANT_Fieldref = 9;
99
100
         * Identification structure.
101
102
103
        public static final short CONSTANT_Methodref = 10;
104
         ** Add WeChat powcoder
* Identifies CONSTANT_InterfaceMethedref_info constant pool structure.
105
106
107
        public static final short CONSTANT_InterfaceMethodref = 11;
108
109
110
         * Identifies CONSTANT_NameAndType_info constant pool structure.
111
112
        public static final short CONSTANT_NameAndType = 12;
113
114
115
        /** Identifies ConstantValue attribute. */
116
        public static final String ATT_CONSTANT_VALUE = "ConstantValue";
117
        /** Identifies Code attribute. */
118
119
        public static final String ATT_CODE = "Code";
120
121
        /** Identifies Exceptions attribute. */
        public static final String ATT_EXCEPTIONS = "Exceptions";
122
123
        /** Identifies InnerClasses attribute. */
124
125
        public static final String ATT_INNER_CLASSES = "InnerClasses";
126
        /** Identifies EnclosingMethod attribute. */
127
128
        public static final String ATT_ENCLOSING_METHOD = "EnclosingMethod";
129
        /** Identifies Synthetic attribute. */
130
        public static final String ATT_SYNTHETIC = "Synthetic";
131
132
133
        /** Identifies Signature attribute. */
134
        public static final String ATT_SIGNATURE = "Signature";
135
```

```
136
        /** Identifies SourceFile attribute. */
        public static final String ATT_SOURCE_FILE = "SourceFile";
138
        /** Identifies SourceDebugExtension attribute. */
139
        public static final String ATT_SOURCE_DEBUG_EXTENSION =
140
"SourceDebugExtension";
141
        /** Identifies LineNumberTable attribute. */
142
143
        public static final String ATT_LINE_NUMBER_TABLE = "LineNumberTable";
144
        /** Identifies LocalVariableTable attribute. */
145
        public static final String ATT_LOCAL_VARIABLE_TABLE = "LocalVariableTable";
146
147
148
        /** Identifies LocalVariableTypeTable attribute. */
149
        public static final String ATT_LOCAL_VARIABLE_TYPE_TABLE =
"LocalVariableTypeTable";
150
        /** Identifies Deprecated attribute. */
151
152
        public static final String ATT_DEPRECATED = "Deprecated";
153
        /** Identifies RuntimeVisibleAnnotations attribute. */
154
155
        public static final String ATT_RUNTIME_VISIBLE_ANNOTATIONS =
"RuntimeVisibleAnnotations";
156
        /** Identifies RuntimeInvisibleAnnotations attribute. */
157
        public static final String ATT_RUNTIME_INVISIBLE_ANNOTATIONS =
"RuntimeInvisibleAnnotations";
159
        /** Identifies RuntimeVisibleParameterAnnotations attribute. */
160
161 public satter in the property surrangement of the public satter annotations = "Runtime visible parameter annotations",
162
163
        /** Identifies RuntimeInvisibleParameterAnnotations attribute. */
public static final String ATT RUNTIME INVISIBLE PARAMETER_ANNOTATIONS = "RuntimeInvisibleParameter Daylot at 10 W COURT COIN
165
        /** Identifies AnnotationDefault attribute. */
166
        public static final String ATT_ANNOTATION_DEFAULT = "AnnotationDefault"; Add WeChat powcoder /** Identifies boolean type of annotation element value. */
167
168
169
170
        public static final short ELT_B = 'B';
171
172
        /** Identifies char type of annotation element value. */
        public static final short ELT_C = 'C';
173
174
175
        /** Identifies double type of annotation element value. */
176
        public static final short ELT_D = 'D';
177
178
        /** Identifies float type of annotation element value. */
179
        public static final short ELT_F = 'F';
180
        /** Identifies int type of annotation element value. */
181
182
        public static final short ELT_I = 'I';
183
184
        /** Identifies long type of annotation element value. */
        public static final short ELT_J = 'J';
185
186
        /** Identifies short type of annotation element value. */
187
        public static final short ELT_S = 'S';
188
189
        /** Identifies boolean type of annotation element value. */
190
191
        public static final short ELT_Z = 'Z';
192
        /** Identifies String type of annotation element value. */
193
194
        public static final short ELT_s = 's';
195
        /** Identifies class type of annotation element value. */
196
197
        public static final short ELT_c = 'c';
198
```

```
199
        /** Identifies annotation type of annotation element value. */
        public static final short ELT_ANNOTATION = '@';
201
        /** Identifies array type of annotation element value. */
        public static final short ELT_ARRAY = '[';
204
205
        /** Identifies enum type of annotation element value. */
206
        public static final short ELT_e = 'e';
207
208
        // JVM instructions begin here
        /** NOP instruction. */
210
211
        public static final int NOP = 0;
212
        /** ACONST_NULL instruction. */
213
214
        public static final int ACONST_NULL = 1;
215
        /** ICONST M1 instruction. */
216
217
        public static final int ICONST_M1 = 2;
218
        /** ICONST_0 instruction. */
219
220
        public static final int ICONST_0 = 3;
221
        /** ICONST_1 instruction. */
222
223
        public static final int ICONST_1 = 4;
224
225
        /** ICONST 2 instruction. */
226
        public static final int ICONST_2 = 5;
227
        /**Assignment Project Exam Help
228
229
230
231
        /** ICONST_4 instruction. */
        public statictfinal inty ICONST A = 7der.com
/** ICONST_5 instruction. */
232
233
234
235
        public static final int ICONST_5 = 8;
236
        /** LCONST_Ain que Whe Chat powcoder
public static final int LCONST_0 = 9
237
238
239
        /** LCONST_1 instruction. */
240
        public static final int LCONST_1 = 10;
241
242
        /** FCONST_0 instruction. */
243
244
        public static final int FCONST 0 = 11;
245
        /** FCONST 1 instruction. */
        public static final int FCONST 1 = 12;
247
248
        /** FCONST_2 instruction. */
249
250
        public static final int FCONST_2 = 13;
251
252
        /** DCONST 0 instruction. */
        public static final int DCONST_0 = 14;
253
254
255
        /** DCONST_1 instruction. */
256
        public static final int DCONST_1 = 15;
257
        /** BIPUSH instruction. */
258
259
        public static final int BIPUSH = 16;
260
        /** SIPUSH instruction. */
261
262
        public static final int SIPUSH = 17;
263
        /** LDC instruction. */
264
265
        public static final int LDC = 18;
266
267
        /** LDC W instruction. */
```

```
268
        public static final int LDC_W = 19;
269
270
        /** LDC2_W instruction. */
        public static final int LDC2_W = 20;
271
272
        /** ILOAD instruction. */
273
274
        public static final int ILOAD = 21;
275
        /** LLOAD instruction. */
276
        public static final int LLOAD = 22;
277
278
        /** FLOAD instruction. */
279
        public static final int FLOAD = 23;
281
        /** DLOAD instruction. */
282
283
        public static final int DLOAD = 24;
284
        /** ALOAD instruction. */
285
286
        public static final int ALOAD = 25;
287
        /** ILOAD_0 instruction. */
288
289
        public static final int ILOAD_0 = 26;
290
        /** ILOAD_1 instruction. */
291
        public static final int ILOAD_1 = 27;
292
293
        /** ILOAD 2 instruction. */
294
        public static final int ILOAD_2 = 28;
295
296
        /**Aussignment Project Exam Help
297
298
299
        /** LLOAD_0 instruction. */
        public statictips int power of 30 der.com

/** LLOAD_1 instruction. */
301
303
304
        public static final int LLOAD_1 = 31;
        /** LLOAD_2And Oct W.eChat powcoder public static final int LLOAD_2 = 32
        /** LLOAD_3 instruction. */
309
        public static final int LLOAD_3 = 33;
311
        /** FLOAD_0 instruction. */
312
313
        public static final int FLOAD 0 = 34;
        /** FLOAD 1 instruction. */
        public static final int FLOAD 1 = 35;
316
317
        /** FLOAD_2 instruction. */
319
        public static final int FLOAD_2 = 36;
321
        /** FLOAD 3 instruction. */
        public static final int FLOAD_3 = 37;
        /** DLOAD_0 instruction. */
324
        public static final int DLOAD_0 = 38;
        /** DLOAD_1 instruction. */
327
328
        public static final int DLOAD_1 = 39;
329
        /** DLOAD_2 instruction. */
331
        public static final int DLOAD_2 = 40;
        /** DLOAD_3 instruction. */
333
334
        public static final int DLOAD_3 = 41;
       /** ALOAD 0 instruction. */
```

```
public static final int ALOAD_0 = 42;
        /** ALOAD_1 instruction. */
        public static final int ALOAD_1 = 43;
341
        /** ALOAD 2 instruction. */
342
343
        public static final int ALOAD_2 = 44;
344
        /** ALOAD_3 instruction. */
        public static final int ALOAD_3 = 45;
346
347
        /** IALOAD instruction. */
349
        public static final int IALOAD = 46;
        /** LALOAD instruction. */
351
352
        public static final int LALOAD = 47;
353
        /** FALOAD instruction. */
354
        public static final int FALOAD = 48;
        /** DALOAD instruction. */
357
        public static final int DALOAD = 49;
        /** AALOAD instruction. */
        public static final int AALOAD = 50;
361
        /** BALOAD instruction. */
        public static final int BALOAD = 51;
364
        /**Assignment Project Exam Help
367
        /** SALOAD instruction. */
        \begin{array}{c} \text{public statictfinal int/SALOAD} = 53. \\ \text{/** ISTORE instruction. */} \end{array}
370
371
372
373
        public static final int ISTORE = 54;
374
        /** LSTORE ASCICITION Chat powcoder public static final int LSTORE = 55; POWCODER
375
376
377
        /** FSTORE instruction. */
379
        public static final int FSTORE = 56;
        /** DSTORE instruction. */
381
        public static final int DSTORE = 57;
        /** ASTORE instruction. */
384
        public static final int ASTORE = 58;
        /** ISTORE_0 instruction. */
        public static final int ISTORE_0 = 59;
        /** ISTORE_1 instruction. */
        public static final int ISTORE_1 = 60;
391
        /** ISTORE_2 instruction. */
394
        public static final int ISTORE_2 = 61;
        /** ISTORE_3 instruction. */
397
        public static final int ISTORE_3 = 62;
        /** LSTORE_0 instruction. */
399
400
        public static final int LSTORE_0 = 63;
401
        /** LSTORE_1 instruction. */
402
403
        public static final int LSTORE_1 = 64;
404
405
        /** LSTORE 2 instruction. */
```

```
406
        public static final int LSTORE_2 = 65;
407
408
        /** LSTORE_3 instruction. */
409
        public static final int LSTORE_3 = 66;
410
        /** FSTORE 0 instruction. */
411
412
        public static final int FSTORE_0 = 67;
413
414
        /** FSTORE_1 instruction. */
        public static final int FSTORE_1 = 68;
415
416
        /** FSTORE_2 instruction. */
417
418
        public static final int FSTORE_2 = 69;
419
        /** FSTORE_3 instruction. */
420
421
        public static final int FSTORE_3 = 70;
422
        /** DSTORE 0 instruction. */
423
424
        public static final int DSTORE_0 = 71;
425
        /** DSTORE_1 instruction. */
426
427
        public static final int DSTORE_1 = 72;
428
        /** DSTORE_2 instruction. */
429
        public static final int DSTORE_2 = 73;
430
431
        /** DSTORE 3 instruction. */
432
        public static final int DSTORE_3 = 74;
433
434
        /** Assignment Project Exam Help
435
436
437
438
        /** ASTORE_1 instruction. */
        public statictfinal intrastore 1 = 76 er.com
/** ASTORE_2 instruction. */
439
440
441
        public static final int ASTORE_2 = 77;
442
443
        /** ASTORE_Ain fluc Whechat powcoder public static final int ASTORE_3 = 78;
444
445
446
        /** IASTORE instruction. */
447
448
        public static final int IASTORE = 79;
449
        /** LASTORE instruction. */
450
451
        public static final int LASTORE = 80;
452
453
        /** FASTORE instruction. */
        public static final int FASTORE = 81;
454
455
        /** DASTORE instruction. */
456
457
        public static final int DASTORE = 82;
458
459
        /** AASTORE instruction. */
460
        public static final int AASTORE = 83;
461
        /** BASTORE instruction. */
462
463
        public static final int BASTORE = 84;
464
        /** CASTORE instruction. */
465
466
        public static final int CASTORE = 85;
467
        /** SASTORE instruction. */
468
469
        public static final int SASTORE = 86;
470
        /** POP instruction. */
471
472
        public static final int POP = 87;
473
474
        /** POP2 instruction. */
```

```
475
        public static final int POP2 = 88;
476
477
         /** DUP instruction. */
478
        public static final int DUP = 89;
        /** DUP X1 instruction. */
480
481
        public static final int DUP_X1 = 90;
482
         /** DUP_X2 instruction. */
483
484
        public static final int DUP_X2 = 91;
485
        /** DUP2 instruction. */
486
487
        public static final int DUP2 = 92;
488
         /** DUP2_X1 instruction. */
489
490
        public static final int DUP2_X1 = 93;
491
         /** DUP2 X2 instruction. */
492
493
        public static final int DUP2_X2 = 94;
494
         /** SWAP instruction. */
495
496
        public static final int SWAP = 95;
497
         /** IADD instruction. */
498
499
        public static final int IADD = 96;
         /** LADD instruction. */
501
        public static final int LADD = 97;
502
503
        /**Assignment Project Exam Help
504
505
506
         /** DADD instruction. */
         \begin{array}{c} \text{public statistical int} \\ \text{ITLIPS.} \\ \text{/** ISUB instruction.} \end{array} \\ \text{*} \\ \begin{array}{c} \text{PADD} \\ \text{$\stackrel{99}{\text{C}}$} \\ \text{Oder.com} \\ \end{array} 
509
510
511
         public static final int ISUB = 100;
512
        /** LSUB in Articlon W/eChat powcoder public static final int LSUB = 101;
513
514
515
         /** FSUB instruction. */
516
517
        public static final int FSUB = 102;
518
         /** DSUB instruction. */
519
        public static final int DSUB = 103;
520
521
522
         /** IMUL instruction. */
        public static final int IMUL = 104;
523
524
525
         /** LMUL instruction. */
526
        public static final int LMUL = 105;
527
528
         /** FMUL instruction. */
        public static final int FMUL = 106;
529
530
        /** DMUL instruction. */
531
532
        public static final int DMUL = 107;
533
         /** IDIV instruction. */
534
535
        public static final int IDIV = 108;
536
         /** LDIV instruction. */
537
538
        public static final int LDIV = 109;
539
        /** FDIV instruction. */
540
541
        public static final int FDIV = 110;
542
543
        /** DDIV instruction. */
```

```
544
        public static final int DDIV = 111;
545
546
        /** IREM instruction. */
        public static final int IREM = 112;
547
548
        /** LREM instruction. */
549
550
        public static final int LREM = 113;
551
        /** FREM instruction. */
552
553
        public static final int FREM = 114;
554
555
        /** DREM instruction. */
556
        public static final int DREM = 115;
557
        /** INEG instruction. */
558
559
        public static final int INEG = 116;
560
        /** LNEG instruction. */
561
        public static final int LNEG = 117;
        /** FNEG instruction. */
564
565
        public static final int FNEG = 118;
566
        /** DNEG instruction. */
567
        public static final int DNEG = 119;
568
569
        /** ISHL instruction. */
570
        public static final int ISHL = 120;
571
572
        /*: Assignment Project Exam Help
573
574
575
576
        /** ISHR instruction. */
         \begin{array}{c} \text{public statictfinal into ISHR} \bar{\mathbb{D}}^{122} \cdot der. com \\ \text{/** LSHR instruction.} \end{array} 
577
578
579
580
        public static final int LSHR = 123;
581
        /** IUSHR iAtomiow*eChat powcoder
public static final int IUSHR = 124;
582
583
584
        /** LUSHR instruction. */
585
586
        public static final int LUSHR = 125;
587
        /** IAND instruction. */
588
589
        public static final int IAND = 126;
590
591
        /** LAND instruction. */
        public static final int LAND = 127;
592
593
        /** IOR instruction. */
594
595
        public static final int IOR = 128;
596
597
        /** LOR instruction. */
598
        public static final int LOR = 129;
599
        /** IXOR instruction. */
600
601
        public static final int IXOR = 130;
602
        /** LXOR instruction. */
603
604
        public static final int LXOR = 131;
605
        /** IINC instruction. */
606
607
        public static final int IINC = 132;
608
        /** I2L instruction. */
609
610
        public static final int I2L = 133;
611
612
        /** I2F instruction. */
```

```
613
        public static final int I2F = 134;
614
615
        /** I2D instruction. */
        public static final int I2D = 135;
616
617
        /** L2I instruction. */
618
619
        public static final int L2I = 136;
620
621
        /** L2F instruction. */
622
        public static final int L2F = 137;
623
        /** L2D instruction. */
624
625
        public static final int L2D = 138;
626
        /** F2I instruction. */
627
628
        public static final int F2I = 139;
629
        /** F2L instruction. */
630
631
        public static final int F2L = 140;
632
        /** F2D instruction. */
633
634
        public static final int F2D = 141;
635
        /** D2I instruction. */
636
        public static final int D2I = 142;
637
638
        /** D2L instruction. */
639
        public static final int D2L = 143;
640
641
        /** Assignment Project Exam Help
642
643
644
645
        /** I2B instruction. */
         \begin{array}{c} \text{public statictfinal int/POWCoder.com} \\ \text{/** I2C instruction. */} \end{array} 
646
647
648
649
        public static final int I2C = 146;
650
        /** I2S insequence. We chat powcoder public static final int I2S = 147;
651
652
653
        /** LCMP instruction. */
654
655
        public static final int LCMP = 148;
656
        /** FCMPL instruction. */
657
        public static final int FCMPL = 149;
658
659
        /** FCMPG instruction. */
660
        public static final int FCMPG = 150;
661
662
        /** DCMPL instruction. */
663
664
        public static final int DCMPL = 151;
665
666
        /** DCMPG instruction. */
        public static final int DCMPG = 152;
667
668
        /** IFEQ instruction. */
669
670
        public static final int IFEQ = 153;
671
        /** IFNE instruction. */
672
673
        public static final int IFNE = 154;
674
        /** IFLT instruction. */
675
676
        public static final int IFLT = 155;
677
        /** IFGE instruction. */
678
679
        public static final int IFGE = 156;
680
681
        /** IFGT instruction. */
```

```
682
        public static final int IFGT = 157;
683
684
        /** IFLE instruction. */
685
        public static final int IFLE = 158;
686
        /** IF_ICMPEQ instruction. */
687
688
        public static final int IF_ICMPEQ = 159;
689
690
        /** IF_ICMPNE instruction. */
691
        public static final int IF_ICMPNE = 160;
692
        /** IF_ICMPLT instruction. */
693
694
        public static final int IF_ICMPLT = 161;
695
        /** IF_ICMPGE instruction. */
696
697
        public static final int IF_ICMPGE = 162;
698
        /** IF ICMPGT instruction. */
699
        public static final int IF_ICMPGT = 163;
701
        /** IF_ICMPLE instruction. */
702
        public static final int IF_ICMPLE = 164;
704
        /** IF_ACMPEQ instruction. */
        public static final int IF_ACMPEQ = 165;
707
        /** IF ACMPNE instruction. */
        public static final int IF_ACMPNE = 166;
709
710
        /**Assignment Project Exam Help
711
712
713
714
        /** JSR instruction. */
         \begin{array}{c} \text{public statictinal interpolation.} \\ \text{Thtps://powcoder.com} \\ \text{/** RET instruction.} \end{array} 
715
716
717
718
        public static final int RET = 169;
719
        /** TABLESWACE CIRCLE TO THE TABLESWITCH POWCOOLET PUBLIC Static final int TABLESWITCH 170;
720
721
722
723
        /** LOOKUPSWITCH instruction. */
724
        public static final int LOOKUPSWITCH = 171;
725
        /** IRETURN instruction. */
726
727
        public static final int IRETURN = 172;
728
729
        /** LRETURN instruction. */
730
        public static final int LRETURN = 173;
731
        /** FRETURN instruction. */
732
        public static final int FRETURN = 174;
734
735
        /** DRETURN instruction. */
736
        public static final int DRETURN = 175;
        /** ARETURN instruction. */
        public static final int ARETURN = 176;
740
        /** RETURN instruction. */
741
742
        public static final int RETURN = 177;
743
        /** GETSTATIC instruction. */
744
745
        public static final int GETSTATIC = 178;
746
        /** PUTSTATIC instruction. */
747
748
        public static final int PUTSTATIC = 179;
749
        /** GETFIELD instruction. */
```

```
751
                 public static final int GETFIELD = 180;
752
                 /** PUTFIELD instruction. */
                 public static final int PUTFIELD = 181;
754
                 /** INVOKEVIRTUAL instruction. */
                 public static final int INVOKEVIRTUAL = 182;
                 /** INVOKESPECIAL instruction. */
                 public static final int INVOKESPECIAL = 183;
761
                 /** INVOKESTATIC instruction. */
762
763
                 public static final int INVOKESTATIC = 184;
764
765
                 /** INVOKEINTERFACE instruction. */
766
                 public static final int INVOKEINTERFACE = 185;
767
                 /** INVOKEDYNAMIC instruction. */
768
769
                 public static final int INVOKEDYNAMIC = 186;
770
                 /** NEW instruction. */
771
772
                 public static final int NEW = 187;
773
                 /** NEWARRAY instruction. */
774
775
                 public static final int NEWARRAY = 188;
776
777
                 /** ANEWARRAY instruction. */
                 public static final int ANEWARRAY = 189;
778
779
                 /**ArsignmentioProject Exam Help
781
783
                 /** ATHROW instruction. */
                 public statictfinal introduction and public statictions introduction and public statictions in the public statiction in the public static stati
784
                 /** CHECKCAST instruction. */
787
                 public static final int CHECKCAST = 192;
                 /** INSTANCE TIME THE TIME TO WE COLOR PUBLIC STATIC FINAL INT INSTANCEOF = 193;
791
                 /** MONITORENTER instruction. */
                 public static final int MONITORENTER = 194;
794
                 /** MONITOREXIT instruction. */
                 public static final int MONITOREXIT = 195;
                 /** WIDE instruction. */
                 public static final int WIDE = 196;
                 /** MULTIANEWARRAY instruction. */
801
802
                 public static final int MULTIANEWARRAY = 197;
804
                 /** IFNULL instruction. */
                 public static final int IFNULL = 198;
                 /** IFNONNULL instruction. */
                 public static final int IFNONNULL = 199;
                 /** GOTO_W instruction. */
                 public static final int GOTO_W = 200;
811
812
                 /** JSR_W instruction. */
813
814
                 public static final int JSR_W = 201;
815
816
                 // JVM instructions end here
817
                 /**
818
                   * We classify the JVM instructions into the following categories.
```

```
*/
                      enum Category {
                               OBJECT, FIELD, METHOD1, METHOD2, ARRAY1, ARRAY2, ARRAY3, ARITHMETIC1,
ARITHMETIC2, BIT, COMPARISON, CONVERSION, FLOW_CONTROL1, FLOW_CONTROL2,
FLOW_CONTROL3, FLOW_CONTROL4, LOAD_STORE1, LOAD_STORE2, LOAD_STORE3, LOAD_STORE4,
STACK, MISC;
823
                     }
824
                     // The constants below simply serve as markers. We are not
826
                     // interested in their values, which however have been picked
                     // so
827
                     // as not to conflict with others.
828
829
830
                       * Denotes values that are irrelevant to certain instructions. For example,
831
                       * local variable index for arithmetic instructions.
832
833
                     public static final int IRRELEVANT = -1;
834
                       * Denotes values that are not statically known. For example, stack units
837
                       * for field instructions.
839
                     public static final int DYNAMIC = 300;
842
                      * Stack units for the instructions that empty the operand stack.
843
844
                      public static final int EMPTY_STACK = 301;
                       Assignment Project Exam Help
847
                        * Stack units for the instructions that set the operand stack to unit size.
849
                     public statictinal interpretation production with the static stat
851
852 }
853
```

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