## JavaCCParser.java

```
/* Generated By:JavaCC: Do not edit this line. JavaCCParser.java */
2
    package jminusminus;
3
    import java.util.ArrayList;
4
5
6
     * Parser generated by JavaCC. It parses a j-- compilation unit
7
     * (program file), taking tokens from the scanner (also generated by
8
     * JavaCC), and produces an abstract syntax tree (AST) for it.
9
10
11
12
    class JavaCCParser implements JavaCCParserConstants {
13
        /** Whether a parser error has been found. */
14
        private boolean errorHasOccurred;
15
16
        /** Name of the file that is parsed. */
        private String fileName;
17
18
19
20
        * Pull out the ambiguous part of a name and return it.
21
         * @param name with an ambiguos part (possibly).
22
         * @return ambiguous part or null.
23
24
25
26
        private AmbiguousName ambiguousPart( TypeName name ) {
           Astoring quelifited and Pame jest cing Fix am Help
27
28
            return lastDotIndex == -1
29
                ? null // It was a simple name
                : new Ambiguous Name ( name lint (), hulli bedware lint () ( las Gotintex ) );
31
        }
         * Report a Avdd e We Chat powcoder
37
         * @param message message identifying the error.
         * @param args related values.
39
40
41
42
        private void reportParserError( String message, Object... args ) {
            errorHasOccurred = true;
43
            System.err.printf( "%s:%d: ", fileName, token.beginLine );
44
            System.err.printf( message, args );
45
46
            System.err.println();
47
        }
48
49
         * Recover from the parser error that occurred by skipping to
50
         ^{\star} any of the specified tokens.
51
52
         * Current error recovery mechanism is rather simple-minded and is
         ^{\star} based on skipping all the tokens until a SEMI or an EOF is
54
         * encountered. This scheme can be enhanced by passing in the
         ^{\ast} FOLLOW-SET of the non-terminal at hand.
         ^{\ast} @param skipTo array of tokens that we could skip to.
         * @param e exception that is raised by JavaCC in the event
59
         * of a parser error.
61
62
63
        private void recoverFromError( int[] skipTo, ParseException e ) {
64
            // Get the possible expected tokens
            StringBuffer expected = new StringBuffer();
65
66
            for ( int i = 0; i < e.expectedTokenSequences.length; i++ ) {</pre>
```

```
for ( int j = 0; j < e.expectedTokenSequences[ i ].length;</pre>
67
68
                     j++ ) {
                    expected.append( "\n" );
69
                    expected.append(
71
                    expected.append( tokenImage[
72
                         e.expectedTokenSequences[ i ][ j ] );
                    expected.append( "..." );
74
                }
            }
76
77
            // Print error message
            if ( e.expectedTokenSequences.length == 1 ) {
                reportParserError( "\"%s\" found where %s sought",
79
                    getToken( 1 ), expected );
81
82
            else {
                reportParserError( "\"%s\" found where one of %s sought",
84
                    getToken( 1 ), expected );
            }
            // Recover
            boolean loop = true;
                token = getNextToken();
                for ( int i = 0; i < skipTo.length; i++ ) {</pre>
91
                    if ( token.kind == skipTo[ i ] ) {
                         loop = false;
94
                         break;
              ssignment Project Exam Help
        }
100
         ** Set the https://pow.coder.com
101
102
103
          @param fileName name of the file.
104
        Add WeChat powcoder public void fileName ( String fileName ) {
105
106
107
            this.fileName = fileName;
108
        }
109
110
         * Has a parser error occurred up to now?
111
112
         * @return true or false.
113
114
115
        public boolean errorHasOccurred() {
116
117
            return errorHasOccurred;
118
119
120
      final public JCompilationUnit compilationUnit() throws ParseException {
121
        int line = 0;
122
        TypeName packageName = null; // Default
123
        TypeName anImport = null;
124
        ArrayList<TypeName> imports =
125
            new ArrayList<TypeName>();
126
        JAST aTypeDeclaration = null;
127
        ArrayList<<u>JAST</u>> typeDeclarations = new ArrayList<<u>JAST</u>>();
128
        try {
129
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
          case PACKAGE:
130
131
            jj_consume_token(PACKAGE);
132
                             line = token.beginLine;
133
            packageName = qualifiedIdentifier();
134
            jj_consume_token(SEMI);
135
            break;
```

```
136
          default:
            jj_la1[0] = jj_gen;
137
138
139
140
          label_1:
          while (true) {
141
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
142
            case IMPORT:
143
144
145
              break;
146
            default:
147
              jj_la1[1] = jj_gen;
148
              break label_1;
149
            jj_consume_token(IMPORT);
150
151
                           line = line == 0 ? token.beginLine : line;
152
            anImport = qualifiedIdentifier();
153
                  imports.add( anImport );
            jj_consume_token(SEMI);
154
155
156
          label_2:
157
          while (true) {
158
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
159
            case ABSTRACT:
160
            case CLASS:
161
            case PRIVATE:
162
            case PROTECTED:
163
            case PUBLIC:
164
            case STATIC:
             ssignment Project Exam Help
165
166
167
            default:
168
              jj_la1[2] = jj_gen;
              breakhlate 3://powcoder.com
169
170
171
            aTypeDeclaration = typeDeclaration();
172
                    line = line == 0 ? aTypeDeclaration.line() : line;
173
                    typeDeclarations add( aTypeDeclaration );
174
                      powcoder
                                     Hat
          jj_consume_token(0);
175
176
                    line = line == 0 ? token.beginLine : line;
        } catch (ParseException e) {
178
            recoverFromError( new int[] { SEMI, EOF }, e );
179
        }
180
            {if (true) return new JCompilationUnit( fileName, line,
181
                packageName, imports, typeDeclarations );}
182
        throw new Error("Missing return statement in function");
183
184
185
      final private TypeName qualifiedIdentifier() throws ParseException {
186
        int line = 0;
187
        String qualifiedIdentifier = "";
188
        try {
189
          jj_consume_token(IDENTIFIER);
190
                line = token.beginLine;
191
                qualifiedIdentifier = token.image;
192
          label_3:
193
          while (true) {
194
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
195
            case DOT:
196
197
              break;
198
            default:
199
              jj_la1[3] = jj_gen;
200
              break label_3;
201
202
            jj_consume_token(DOT);
203
            jj_consume_token(IDENTIFIER);
                  qualifiedIdentifier += "." + token.image;
204
```

```
205
        } catch (ParseException e) {
            recoverFromError( new int[] { SEMI, EOF }, e );
          {if (true) return
             new TypeName( line, qualifiedIdentifier );}
211
        throw new Error("Missing return statement in function");
212
213
214
      final private JAST typeDeclaration() throws ParseException {
215
        ArrayList<String> mods = null;
216
        JAST classDeclaration = null;
217
        try {
          mods = modifiers();
218
219
          classDeclaration = classDeclaration(mods);
220
        } catch (ParseException e) {
221
            recoverFromError( new int[] { SEMI, EOF }, e );
222
          {if (true) return classDeclaration;}
224
        throw new Error("Missing return statement in function");
225
226
227
      final private ArrayList<String> modifiers() throws ParseException {
        ArrayList<String> mods = new ArrayList<String>();
228
229
        boolean scannedPUBLIC = false;
        boolean scannedPROTECTED = false;
231
        boolean scannedPRIVATE = false;
232
        boolean scannedSTATIC = false;
        boolean scannedABSTRACT = false;
tryASSIgnment Project Exam Help
233
234
235
236
          while (true) {
237
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
            case PHILATEDS://powcoder.com
            case PROTECTED:
240
241
            case PUBLIC:
            Add WeChat powcoder
242
243
244
245
            default:
              jj_la1[4] = jj_gen;
246
247
              break label_4;
248
249
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
            case PUBLIC:
              jj_consume_token(PUBLIC);
                mods.add( "public" );
if ( scannedPUBLIC ) {
                    reportParserError( "Repeated modifier: public" );
254
                if ( scannedPROTECTED || scannedPRIVATE ) {
257
                    reportParserError( "Access conflict in modifiers" );
                }
                scannedPUBLIC = true;
260
              break;
261
            case PROTECTED:
              jj_consume_token(PROTECTED);
262
                mods.add( "protected" );
263
264
                if ( scannedPROTECTED ) {
                    reportParserError( "Repeated modifier: protected" );
265
266
267
                if ( scannedPUBLIC || scannedPRIVATE ) {
                    reportParserError( "Access conflict in modifiers" );
268
269
                }
270
                scannedPROTECTED = true;
271
              break;
272
            case PRIVATE:
              jj_consume_token(PRIVATE);
273
```

```
mods.add( "private" );
274
                                   if ( scannedPRIVATE ) {
                                            reportParserError(
                                                                                       "Repeated modifier: private" );
                                    if ( scannedPUBLIC || scannedPROTECTED ) {
                                            reportParserError( "Access conflict in modifiers" );
279
280
281
                                    scannedPRIVATE = true;
                               break;
282
                          case STATIC:
                               jj_consume_token(STATIC);
                                   mods.add( "static" );
                                    if ( scannedSTATIC ) {
                                            reportParserError( "Repeated modifier: static" );
287
288
289
                                   scannedSTATIC = true;
                               break;
291
                          case ABSTRACT:
                               jj_consume_token(ABSTRACT);
                                   mods.add( "abstract" );
294
                                    if ( scannedABSTRACT ) {
295
                                            reportParserError( "Repeated modifier: abstract" );
296
297
                                    scannedABSTRACT = true;
                               break;
                          default:
                               jj_la1[5] = jj_gen;
301
                               jj_consume_token(-1);
                             ssignment Project Exam Help
304
                 } catch (ParseException e) {
                          recoverFromError( new int[] { SEMI, EOF }, e );
                 {if (true) ttphs mode poweder.com throw new Error ("Missing return statement in function");
             final private Action of the fi
311
312
ParseException {
                  int line = 0;
                 String name = "":
314
                 Type superClass = Type.OBJECT;
                 ArrayList<<u>JMember</u>> classBody = null;
317
                  try {
                      jj_consume_token(CLASS);
                                                 line = token.beginLine;
                      jj_consume_token(IDENTIFIER);
                                                            name = token.image;
321
322
                      switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
                      case EXTENDS:
                          jj_consume_token(EXTENDS);
324
                          superClass = qualifiedIdentifier();
326
                          break;
                      default:
                          jj_la1[6] = jj_gen;
331
                      classBody = classBody();
                 } catch (ParseException e) {
333
                           recoverFromError( new int[] { SEMI, EOF }, e );
                           {if (true) return new JClassDeclaration( line, mods,
                                   name, superClass, classBody );}
337
                  throw new Error("Missing return statement in function");
340
             final private ArrayList<JMember> classBody() throws ParseException {
341
                 ArrayList<String> mods = null;
```

```
342
        JMember aMember = null;
        ArrayList<JMember> members = new ArrayList<JMember>();
344
        try {
          jj_consume_token(LCURLY);
          label_5:
         while (true) {
347
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
            case ABSTRACT:
            case BOOLEAN:
351
            case CHAR:
            case INT:
            case PRIVATE:
353
354
            case PROTECTED:
355
            case PUBLIC:
            case STATIC:
            case VOID:
            case IDENTIFIER:
              break;
361
            default:
              jj_la1[7] = jj_gen;
362
              break label_5;
364
            }
            mods = modifiers();
            aMember = memberDecl(mods);
                                               members.add( aMember );
          jj_consume_token(RCURLY);
        } catch (RarseException e)_{
             ssignment Project Exam Help
371
372
373
          {if (true) return members;}
        throw new Error("Missing return statement in function");
374
375
                   https://powcoder.com
376
377
     final private JMember memberDecl(ArrayList<String> mods) throws ParseException
378
        int line = 0;
        Type type = Audd
String name =
                            WeChat powcoder
379
        ArrayList<<u>JFormalParameter</u>> params = null;
381
382
        JBlock body = null;
        ArrayList<JVariableDeclarator> variableDeclarators = null;
        JMember memberDecl = null;
384
        try {
          if (jj_2_1(2147483647)) {
            jj_consume_token(IDENTIFIER);
                    line = token.beginLine;
                    name = token.image;
            params = formalParameters();
            body = block();
391
                    memberDecl =
                    new JConstructorDeclaration( line, mods,
                                                 name, params, body );
          } else if (jj_2_2(2147483647)) {
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
            case VOID:
              jj_consume_token(VOID);
                             type = Type.VOID;
400
              break;
401
            case BOOLEAN:
402
            case CHAR:
403
            case INT:
404
            case IDENTIFIER:
405
              type = type();
406
              break;
407
            default:
408
              jj_la1[8] = jj_gen;
409
              jj_consume_token(-1);
```

```
410
              throw new ParseException();
411
            }
412
                  line = token.beginLine;
413
            jj_consume_token(IDENTIFIER);
414
                                name = token.image;
            params = formalParameters();
415
416
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
417
            case LCURLY:
              body = block();
418
419
              break;
420
            case SEMI:
421
              jj_consume_token(SEMI);
422
              break;
423
            default:
424
              jj_la1[9] = jj_gen;
425
              jj_consume_token(-1);
426
              throw new ParseException();
427
            }
428
                    memberDecl =
429
                       new JMethodDeclaration( line, mods, name,
430
                                                 type, params, body );
431
          } else {
432
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
433
            case BOOLEAN:
434
            case CHAR:
435
            case INT:
436
            case IDENTIFIER:
437
              type = type();
438
                                 line = token.beginLine;
              sesiaging pents Project irexame Help
439
440
441
                    memberDecl = new <u>JFieldDeclaration</u>( line, mods,
442
                         variableDeclarators );
            breakhttps://powcoder.com
443
444
445
              jj_la1[10] = jj_gen;
446
              jj_consume_token(-1);
              Add WeChat powcoder
447
448
449
        } catch (ParseException e) {
450
            recoverFromError( new int[] { SEMI, EOF }, e );
451
452
453
          {if (true) return memberDecl;}
454
        throw new Error("Missing return statement in function");
455
456
457
      final private JBlock block() throws ParseException {
458
        int line = 0;
459
        <u>JStatement</u> aStatement = null;
460
        ArrayList<<u>JStatement</u>> statements = new ArrayList<<u>JStatement</u>>();
461
        try {
462
          jj_consume_token(LCURLY);
463
                       line = token.beginLine;
464
          label_6:
465
          while (true) {
466
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
            case BOOLEAN:
467
            case CHAR:
468
469
            case FALSE:
470
            case IF:
471
            case INT:
472
            case NEW:
473
            case NULL:
474
            case RETURN:
475
            case SUPER:
476
            case THIS:
477
            case TRUE:
478
            case WHILE:
```

```
479
            case INC:
480
            case LNOT:
481
            case MINUS:
482
            case LPAREN:
            case LCURLY:
483
484
            case SEMI:
            case IDENTIFIER:
485
486
            case INT_LITERAL:
487
            case CHAR_LITERAL:
488
            case STRING_LITERAL:
489
490
              break;
491
            default:
492
              jj_la1[11] = jj_gen;
493
              break label_6;
494
495
            aStatement = blockStatement();
496
                  statements.add( aStatement );
497
498
          jj_consume_token(RCURLY);
499
        } catch (ParseException e) {
500
            recoverFromError( new int[] { SEMI, EOF }, e );
501
502
          {if (true) return new JBlock( line, statements );}
503
        throw new Error("Missing return statement in function");
504
505
506
      final private JStatement blockStatement() throws ParseException {
        Istatement statement = nulliproject Exam Help
507
        tryA $51gnment
ff ()J_2 (2147483647))
508
509
510
            statement = localVariableDeclarationStatement();
511
          } else {
            switch Kitch ptk= /1/2jo otk Coder Com
512
514
            case IF:
515
            case NEW:
516
            case NULL:
            case REFERRISE We Chat powcoder
517
            case SUPER:
518
519
            case THIS:
            case TRUE:
520
521
            case WHILE:
            case INC:
523
            case LNOT:
524
            case MINUS:
525
            case LPAREN:
526
            case LCURLY:
            case SEMI:
            case IDENTIFIER:
528
529
            case INT_LITERAL:
530
            case CHAR_LITERAL:
531
            case STRING_LITERAL:
532
              statement = statement();
              break;
533
534
            default:
535
              jj_la1[12] = jj_gen;
536
              jj_consume_token(-1);
537
              throw new ParseException();
            }
539
540
        } catch (ParseException e) {
541
            recoverFromError( new int[] { SEMI, EOF }, e );
542
543
          {if (true) return statement;}
544
        throw new Error("Missing return statement in function");
545
546
547
      final private JStatement statement() throws ParseException {
```

```
548
        int line = 0;
549
        <u>JStatement</u> statement = null;
550
        <u>JExpression</u> test = null;
551
        <u>JStatement</u> consequent = null;
        <u>JStatement</u> alternate = null;
        <u>JStatement</u> body = null;
554
        JExpression expr = null;
555
        try {
556
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
          case LCURLY:
557
558
             statement = block();
559
             break;
560
          case IF:
561
             jj_consume_token(IF);
562
                    line = token.beginLine;
563
             test = parExpression();
564
             consequent = statement();
565
             if (jj_2_4(2147483647)) {
               jj_consume_token(ELSE);
               alternate = statement();
568
             } else {
569
             }
570
571
               statement =
572
                 new <u>JIfStatement(</u> line, test, consequent, alternate );
573
             break;
574
          case WHILE:
575
             jj_consume_token(WHILE);
             line = token begin ine;
testsignimeent()Project Exam Help
576
577
578
579
               statement = new <u>JWhileStatement( line, test, body );</u>
580
             break;
          jj_consume_token(RETURN);WCOder.com
581
582
583
                         tine = token.beginLine;
584
             switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
585
             case FALSE:
                              WeChat powcoder
             case NEWA (1)
586
             case NULL:
             case SUPER:
589
             case THIS:
590
             case TRUE:
             case INC:
591
             case LNOT:
592
593
             case MINUS:
594
             case LPAREN:
595
             case IDENTIFIER:
596
             case INT_LITERAL:
597
             case CHAR_LITERAL:
598
             case STRING_LITERAL:
599
               expr = expression();
               break;
600
601
             default:
602
               jj_la1[13] = jj_gen;
603
604
605
             jj_consume_token(SEMI);
               statement = new <u>JReturnStatement( line, expr );</u>
607
             break;
608
          case SEMI:
609
             jj_consume_token(SEMI);
610
               statement = new <u>JEmptyStatement( line );</u>
611
             break;
612
          case FALSE:
613
          case NEW:
614
          case NULL:
615
          case SUPER:
616
          case THIS:
```

```
617
         case TRUE:
618
          case INC:
619
          case LNOT:
620
          case MINUS:
621
         case LPAREN:
         case IDENTIFIER:
623
         case INT_LITERAL:
624
         case CHAR_LITERAL:
625
         case STRING_LITERAL:
626
            // Must be a statementExpression
627
                    statement = statementExpression();
628
            jj_consume_token(SEMI);
629
            break;
630
          default:
631
            jj_la1[14] = jj_gen;
632
            jj_consume_token(-1);
633
            throw new ParseException();
634
635
        } catch (ParseException e) {
            recoverFromError( new int[] { SEMI, EOF }, e );
636
637
638
          {if (true) return statement;}
639
        throw new Error("Missing return statement in function");
640
641
      final private ArrayList<JFormalParameter> formalParameters() throws
642
ParseException {
643
        ArrayList<<u>JFormalParameter</u>> parameters =
            new ArrayList<JFormalParameter>();
644
        FASSISINMENT Project Exam Help
645
646
647
          jj_consume_token(LPAREN);
648
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
         case BOODEAN POWCOder.com
649
650
651
          case INT:
652
          case IDENTIFIER:
653
            aParameter = formalParameter();
                  p And drs We lea hater powcoder
654
            label_7:
655
            while (true) {
656
657
              switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
658
              case COMMA:
659
660
                break;
              default:
661
                jj_la1[15] = jj_gen;
662
                break label_7;
663
664
665
              jj_consume_token(COMMA);
666
              aParameter = formalParameter();
667
                      parameters.add( aParameter );
668
669
            break;
670
          default:
671
            jj_la1[16] = jj_gen;
672
673
674
          jj_consume_token(RPAREN);
675
        } catch (ParseException e) {
676
            recoverFromError( new int[] { SEMI, EOF }, e );
677
678
          {if (true) return parameters;}
679
        throw new Error("Missing return statement in function");
680
681
682
      final private JFormalParameter formalParameter() throws ParseException {
683
        int line = 0;
684
        Type type = null;
```

```
String name = "";
686
        try {
687
          type = type();
688
                             line = token.beginLine;
689
          jj_consume_token(IDENTIFIER);
690
                            name = token.image;
691
        } catch (ParseException e) {
            recoverFromError( new int[] { SEMI, EOF }, e );
692
693
694
          {if (true) return new JFormalParameter( line, name, type );}
695
        throw new Error("Missing return statement in function");
696
697
698
      final private JExpression parExpression() throws ParseException {
699
        <u>JExpression</u> expr = null;
        try {
701
          jj_consume_token(LPAREN);
          expr = expression();
          jj_consume_token(RPAREN);
704
        } catch (ParseException e) {
            recoverFromError( new int[] { SEMI, EOF }, e );
          {if (true) return expr;}
        throw new Error("Missing return statement in function");
710
      final private JVariableDeclaration localVariableDeclarationStatement() throws
711
ParseException {
712
        int line = 0;
                                        yject Exam Help
        Type type on ment Property ArrayList war Lable Declarator
713
714
715
        ArrayList<String> mods = new ArrayList<String>();
716
        try {
          type = typettps://pow.coder.com
717
718
719
          vdecls = variableDeclarators(type);
720
          jj_consume_token(SEMI);
        recover Acoustic or Wee Inthate DOWCOOLT
721
722
723
724
          {if (true) return new JVariableDeclaration( line, mods, vdecls );}
725
        throw new Error("Missing return statement in function");
726
727
728
      final private ArrayList<JVariableDeclarator> variableDeclarators(Type type)
throws ParseException {
        <u>JVariableDeclarator</u> aVariableDeclarator = null;
729
        ArrayList<<u>JVariableDeclarator</u>> variableDeclarators =
730
731
            new ArrayList<<u>JVariableDeclarator</u>>();
        try {
          aVariableDeclarator = variableDeclarator(type);
734
              variableDeclarators.add( aVariableDeclarator );
          label_8:
          while (true) {
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
            case COMMA:
              break;
741
            default:
742
              jj_la1[17] = jj_gen;
743
              break label_8;
745
            jj_consume_token(COMMA);
746
            aVariableDeclarator = variableDeclarator(type);
747
                  variableDeclarators.add( aVariableDeclarator );
748
          }
749
        } catch (ParseException e) {
            recoverFromError( new int[] { SEMI, EOF }, e );
        }
```

```
{if (true) return variableDeclarators;}
        throw new Error("Missing return statement in function");
754
756
      final private JVariableDeclarator variableDeclarator(Type type) throws
ParseException {
        int line = 0;
        JExpression initial = null;
        String name = "";
        try {
761
          jj_consume_token(IDENTIFIER);
762
                          line = token.beginLine; name = token.image;
763
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
764
          case ASSIGN:
765
            jj_consume_token(ASSIGN);
766
            initial = variableInitializer(type);
767
          default:
769
            jj_la1[18] = jj_gen;
770
771
772
        } catch (ParseException e) {
773
            recoverFromError( new int[] { SEMI, EOF }, e );
774
775
          {if (true) return new JVariableDeclarator( line, name, type, initial );}
        throw new Error("Missing return statement in function");
776
777
778
781
        try {
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
         case LCURLYTTPS://pow.coderecom
784
785
            break;
786
         case FALSE:
787
         case NEW:
         case NEW: Add WeChat powcoder
         case SUPER:
789
         case THIS:
         case TRUE:
791
         case INC:
792
         case LNOT:
794
         case MINUS:
         case LPAREN:
         case IDENTIFIER:
         case INT_LITERAL:
         case CHAR LITERAL:
799
         case STRING_LITERAL:
           initializer = expression();
           break;
801
         default:
802
803
            jj_la1[19] = jj_gen;
804
            jj_consume_token(-1);
            throw new ParseException();
        } catch (ParseException e) {
            recoverFromError( new int[] { SEMI, EOF }, e );
810
          {if (true) return initializer;}
811
        throw new Error("Missing return statement in function");
812
813
814
      final private <u>JArrayInitializer</u> arrayInitializer(<u>Type</u> expected) throws
ParseException {
        int line = 0;
816
        ArrayList<<u>JExpression</u>> initials = new ArrayList<<u>JExpression</u>>();
        JExpression anInitializer = null;
817
```

```
try {
          jj_consume_token(LCURLY);
                       line = token.beginLine;
821
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
          case FALSE:
          case NEW:
          case NULL:
824
          case SUPER:
          case THIS:
827
          case TRUE:
828
          case INC:
829
          case LNOT:
830
          case MINUS:
831
          case LPAREN:
832
          case LCURLY:
833
          case IDENTIFIER:
834
          case INT_LITERAL:
          case CHAR LITERAL:
          case STRING LITERAL:
            anInitializer = variableInitializer(expected.componentType());
                  initials.add( anInitializer );
839
            label_9:
            while (true) {
              switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
              case COMMA:
843
                break;
844
              default:
                jj_la1[20] = jj_gen;
            Assignment Project Exam Help
847
              jj_consume_token(COMMA);
              anInitializer = variableInitializer(expected.componentType());
                   https://powcoder.com
851
            }
            break;
854
          default:
            ; Add WeChat powcoder
          jj_consume_token(RCURLY);
        } catch (ParseException e) {
            recoverFromError( new int[] { SEMI, EOF }, e );
861
862
          {if (true) return new JArrayInitializer( line, expected, initials );}
        throw new Error("Missing return statement in function");
864
      final private ArrayList<<u>JExpression</u>> arguments() throws <u>ParseException</u> {
867
        ArrayList<<u>JExpression</u>> args = new ArrayList<<u>JExpression</u>>();
        <u>JExpression</u> anExpression = null;
        try {
          jj_consume_token(LPAREN);
871
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
872
          case FALSE:
          case NEW:
          case NULL:
874
          case SUPER:
          case THIS:
877
          case TRUE:
          case INC:
879
          case LNOT:
          case MINUS:
881
          case LPAREN:
          case IDENTIFIER:
          case INT_LITERAL:
884
          case CHAR_LITERAL:
          case STRING LITERAL:
            anExpression = expression();
```

```
args.add( anExpression );
           label_10:
           while (true) {
             switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
             case COMMA:
               break;
             default:
894
                jj_la1[22] = jj_gen;
               break label_10;
897
             jj_consume_token(COMMA);
             anExpression = expression();
                     args.add( anExpression );
901
902
           break;
         default:
904
           jj_la1[23] = jj_gen;
          jj_consume_token(RPAREN);
        } catch (ParseException e) {
           recoverFromError( new int[] { SEMI, EOF }, e );
          {if (true) return args;}
911
        throw new Error("Missing return statement in function");
913
914
     final private Type type() throws ParseException {
       Type Stand Project Exam Help
917
          if (jj_2_5(2147483647)) {
919
            type = referenceType();
         else { https://powcoder.com
921
922
           case BOOLEAN:
           case CHAR:
             type And dry We Chat powcoder
924
           case INT :
926
           default:
              jj_la1[24] = jj_gen;
              jj_consume_token(-1);
              throw new ParseException();
           }
931
        } catch (ParseException e) {
           recoverFromError( new int[] { SEMI, EOF }, e );
          {if (true) return type;}
        throw new Error("Missing return statement in function");
      final private Type basicType() throws ParseException {
941
        Type type = Type.ANY;
942
        try {
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
          case BOOLEAN:
            jj_consume_token(BOOLEAN);
                       type = Type.BOOLEAN;
947
           break;
          case CHAR:
949
           jj_consume_token(CHAR);
                    type = Type.CHAR;
           break;
         case INT:
           jj_consume_token(INT);
                   type = Type.INT;
           break;
```

```
default:
957
            jj_la1[25] = jj_gen;
            jj_consume_token(-1);
            throw new ParseException();
961
        } catch (ParseException e) {
            recoverFromError( new int[] { SEMI, EOF }, e );
964
          {if (true) return type;}
        throw new Error("Missing return statement in function");
967
      final private Type referenceType() throws ParseException {
        Type type = Type.ANY;
970
971
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
972
          case BOOLEAN:
973
          case CHAR:
974
          case INT:
975
            type = basicType();
976
            ji_consume_token(LBRACK);
977
            jj_consume_token(RBRACK);
                                 type = new ArrayTypeName( type );
979
            label_11:
            while (true) {
              switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
              case LBRACK:
                break;
              ssignment Project Exam Help
                break label_11;
              jj_consume_teken((LBRACK));
jj_consume_teken(FBRACK); coder.com
                  type = new ArrayTypeName( type );
991
            break;
            ise IDENAFOIC WeChat powcoder type = qualifiedIdentifier();
          case IDEN AFEER
            label_12:
            while (true) {
              switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
              case LBRACK:
1000
                break;
1001
1002
              default:
                jj_la1[27] = jj_gen;
1003
                break label_12;
1004
1005
1006
              jj_consume_token(LBRACK);
1007
              jj_consume_token(RBRACK);
1008
                  type = new ArrayTypeName( type );
1009
1010
            break;
1011
          default:
1012
            jj_la1[28] = jj_gen;
1013
            jj_consume_token(-1);
1014
            throw new ParseException();
1015
1016
        } catch (ParseException e) {
            recoverFromError( new int[] { SEMI, EOF }, e );
1017
1018
1019
          {if (true) return type;}
1020
        throw new Error("Missing return statement in function");
1021
1022
1023
      final private JStatement statementExpression() throws ParseException {
1024
        int line = 0;
```

```
1025
        JExpression expr = null;
        try {
1027
          expr = expression();
1028
                 line = expr.line();
                 if ( expr instanceof JAssignment
1029
1030
                   || expr instanceof JPreIncrementOp
1031
                   || expr instanceof JPostDecrementOp
1032
                   || expr instanceof <u>JMessageExpression</u>
                   || expr instanceof <u>JSuperConstruction</u>
1033
1034
                   || expr instanceof JThisConstruction
1035
                   || expr instanceof <u>JNewOp</u>
                   || expr instanceof <u>JNewArrayOp</u> ) {
1036
1037
                     // So as not to save on stack
1038
                     expr.isStatementExpression = true;
1039
1040
                 else {
                     reportParserError( "Invalid statement expression; " +
1041
1042
                         "it does not have a side-effect" );
1043
1044
        } catch (ParseException e) {
1045
            recoverFromError( new int[] { SEMI, EOF }, e );
1046
1047
          {if (true) return new JStatementExpression( line, expr );}
1048
        throw new Error("Missing return statement in function");
1049
1050
1051
      final private JExpression expression() throws ParseException {
        <u>JExpression</u> expr = null;
1052
1053
        try ₄{
          Assissing tents Project Exam Help
1054
1055
1056
            recoverFromError( new int[] { SEMI, EOF }, e );
1057
        throw new Error expression POWCOCETiCOMon");
1058
1059
1060
1061
      final private JExpression assignment Expression() throws Parse Exception {
int line = A 00 W C 00 C 1
1062
        int line = Add We Chat powcoder

JExpression lhs = null, rhs = null;
1063
1064
1065
        try {
1066
          lhs = conditionalAndExpression();
1067
                                                  line = lhs.line();
1068
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1069
          case ASSIGN:
1070
          case PLUS ASSIGN:
1071
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1072
            case ASSIGN:
1073
               jj_consume_token(ASSIGN);
1074
               rhs = assignmentExpression();
1075
                   lhs = new JAssignOp( line, lhs, rhs );
1076
              break;
            case PLUS_ASSIGN:
1077
               jj_consume_token(PLUS_ASSIGN);
1078
1079
               rhs = assignmentExpression();
1080
                   lhs = new JPlusAssignOp( line, lhs, rhs );
1081
              break;
            default:
1082
1083
              jj_la1[29] = jj_gen;
1084
              jj_consume_token(-1);
1085
               throw new ParseException();
1086
1087
            break;
1088
          default:
1089
            jj_la1[30] = jj_gen;
1090
1091
1092
        } catch (ParseException e) {
1093
            recoverFromError( new int[] { SEMI, EOF }, e );
```

```
1094
          {if (true) return lhs;}
1095
1096
        throw new Error("Missing return statement in function");
1097
1098
1099
      final private <u>JExpression</u> conditionalAndExpression() throws <u>ParseException</u> {
1100
        int line = 0;
        <u>JExpression</u> lhs = null, rhs = null;
1101
1102
        try {
1103
          lhs = equalityExpression();
1104
                                          line = lhs.line();
1105
          label_13:
1106
          while (true) {
1107
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1108
            case LAND:
1109
1110
              break;
1111
            default:
1112
              jj_la1[31] = jj_gen;
1113
              break label_13;
1114
            jj_consume_token(LAND);
1115
            rhs = equalityExpression();
                  lhs = new JLogicalAndOp( line, lhs, rhs );
1117
1118
1119
        } catch (ParseException e) {
            recoverFromError( new int[] { SEMI, EOF }, e );
1120
1121
        thr Assignment Project Examo Help
1122
1123
1124
1125
1126
      final private <u>JExpression</u> equalityExpression() throws <u>ParseException</u> {
        int line = https://powcoder.com
1127
1128
1129
        try {
1130
          lhs = relationalExpression();
1131
                                            line = lhs.line();
                             WeChat powcoder
          label_14:A
1132
          while (true) {
1133
1134
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1135
            case EQUAL:
1136
1137
              break;
1138
            default:
1139
              jj_la1[32] = jj_gen;
1140
              break label_14;
1141
            jj_consume_token(EQUAL);
1142
1143
            rhs = relationalExpression();
1144
                  lhs = new JEqualOp( line, lhs, rhs );
1145
1146
        } catch (ParseException e) {
1147
            recoverFromError( new int[] { SEMI, EOF }, e );
1148
1149
          {if (true) return lhs;}
1150
        throw new Error("Missing return statement in function");
1151
1152
1153
      final private <u>JExpression</u> relationalExpression() throws <u>ParseException</u> {
1154
        int line = 0;
1155
        <u>JExpression</u> lhs = null, rhs = null;
1156
        Type type = null;
1157
        try {
1158
          lhs = additiveExpression();
1159
                                          line = lhs.line();
1160
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1161
          case INSTANCEOF:
1162
          case GT:
```

```
1163
          case LE:
1164
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1165
            case GT:
1166
              jj_consume_token(GT);
1167
              rhs = additiveExpression();
1168
                  lhs = new JGreaterThanOp( line, lhs, rhs );
              break;
1169
1170
            case LE:
1171
              jj_consume_token(LE);
1172
              rhs = additiveExpression();
1173
                  lhs = new JLessEqualOp( line, lhs, rhs );
1174
              break;
1175
            case INSTANCEOF:
1176
              jj_consume_token(INSTANCEOF);
1177
              type = referenceType();
1178
                  lhs = new JInstanceOfOp( line, lhs, type );
1179
              break;
1180
            default:
1181
              jj_la1[33] = jj_gen;
1182
              jj_consume_token(-1);
1183
              throw new ParseException();
1184
1185
            break;
          default:
1186
1187
            jj_la1[34] = jj_gen;
1188
1189
1190
        } catch (ParseException e) {
            recoverFromError( new int[] { SEMI, FOF }, e );
1191
          Assignment,
1192
                                   Project Exam
1193
1194
        throw new Error("Missing return statement in function");
1195
1196
      final private https://passion and twee of the Colon Parse Exception {
1197
1198
        int line = 0;
1199
        JExpression lhs = null, rhs = null;
1200
          ins = mulapadati
                                             powcoder
line = lhs.line();
1201
1202
1203
          label_15:
          while (true) {
1204
1205
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1206
            case PLUS:
1207
            case MINUS:
1208
1209
              break;
1210
            default:
1211
              jj_la1[35] = jj_gen;
1212
              break label_15;
1213
1214
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1215
            case PLUS:
1216
              jj_consume_token(PLUS);
1217
              rhs = multiplicativeExpression();
1218
                  lhs = new JPlusOp( line, lhs, rhs );
1219
              break;
1220
            case MINUS:
1221
              jj_consume_token(MINUS);
1222
              rhs = multiplicativeExpression();
1223
                  lhs = new JSubtractOp( line, lhs, rhs );
1224
              break;
1225
            default:
1226
              jj_la1[36] = jj_gen;
1227
              jj_consume_token(-1);
1228
              throw new ParseException();
            }
1229
1230
1231
        } catch (ParseException e) {
```

```
1232
             recoverFromError( new int[] { SEMI, EOF }, e );
1233
        }
1234
           {if (true) return lhs;}
1235
        throw new Error("Missing return statement in function");
1236
1237
1238
      final private <u>JExpression</u> multiplicativeExpression() throws <u>ParseException</u> {
        int line = 0;
1239
        JExpression lhs = null, rhs = null;
1240
1241
        try {
1242
           lhs = unaryExpression();
1243
                                         line = lhs.line();
1244
           label_16:
1245
          while (true) {
1246
             switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1247
             case STAR:
1248
1249
               break;
1250
             default:
1251
               jj_la1[37] = jj_gen;
1252
               break label_16;
1253
             jj_consume_token(STAR);
1254
1255
             rhs = unaryExpression();
1256
                   lhs = new JMultiplyOp( line, lhs, rhs );
1257
           }
1258
        } catch (ParseException e) {
             recoverFromError( new int[] { SEMI, EOF }, e );
1259
1260
        Assignment Project
1261
1262
1263
      }
1264
      final private lexpression unary Expression throws Parse Exception { int line = 0,000 ... Power parse Exception {
1265
1266
        <u>JExpression</u> expr = null, unaryExpr = null;
1267
1268
           switch ((j.j_ntk= 1)?j_ntk():jj_ntk) { case INC: Add WeChat DO
1269
                                        nat powcoder
1270
             jj_consume_token(INC);
1271
1272
                     line = token.beginLine;
             unaryExpr = unaryExpression();
1273
1274
               expr = new JPreIncrementOp( line, unaryExpr );
1275
             break;
1276
           case MINUS:
             jj_consume_token(MINUS);
1277
1278
                        line = token.beginLine;
             unaryExpr = unaryExpression();
1279
1280
               expr = new JNegateOp( line, unaryExpr );
1281
             break:
1282
          case FALSE:
1283
          case NEW:
          case NULL:
1284
1285
          case SUPER:
1286
          case THIS:
1287
          case TRUE:
1288
          case LNOT:
1289
          case LPAREN:
1290
          case IDENTIFIER:
1291
          case INT_LITERAL:
1292
          case CHAR_LITERAL:
1293
          case STRING_LITERAL:
1294
             expr = simpleUnaryExpression();
1295
             break;
1296
           default:
1297
             jj_la1[38] = jj_gen;
1298
             jj_consume_token(-1);
1299
             throw new ParseException();
1300
           }
```

```
1301
        } catch (ParseException e) {
1302
             recoverFromError( new int[] { SEMI, EOF }, e );
1303
1304
          {if (true) return expr;}
1305
        throw new Error("Missing return statement in function");
1306
1307
1308
      final private <u>JExpression</u> simpleUnaryExpression() throws <u>ParseException</u> {
        int line = 0;
1309
1310
        Type type = null;
1311
        JExpression expr = null, unaryExpr = null, simpleUnaryExpr = null;
1312
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1313
1314
          case LNOT:
1315
            jj_consume_token(LNOT);
1316
                      line = token.beginLine;
1317
             unaryExpr = unaryExpression();
1318
               expr = new JLogicalNotOp( line, unaryExpr );
1319
            break;
1320
          default:
1321
            jj_la1[39] = jj_gen;
1322
             if (jj_2_6(2147483647)) {
               jj_consume_token(LPAREN);
1323
1324
                        line = token.beginLine;
1325
               type = basicType();
               jj_consume_token(RPAREN);
1326
1327
               unaryExpr = unaryExpression();
               expr = new \underline{JCastOp}(line, type, unaryExpr);
1328
             } else if (jj_2_7(2147<mark>48</mark>3647)) {
1329
               ssigning entrapposect
1330
1331
1332
               type = referenceType();
1333
               jj_consume_token(RPAREN);
               simpleUnaryExpr/= simpleUnaryExtression();
expr How Doactor Ouney Cybe ClempleUnaryExpr);
1334
1335
1336
            } else {
1337
               switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
               case FALSE:
1338
                              WeChat powcoder
1339
               case NULL:
1340
1341
               case SUPER:
               case THIS:
1342
               case TRUE:
1343
1344
               case LPAREN:
1345
               case IDENTIFIER:
1346
               case INT LITERAL:
1347
               case CHAR LITERAL:
1348
               case STRING LITERAL:
1349
                 expr = postfixExpression();
                 break;
1350
1351
               default:
1352
                 jj_la1[40] = jj_gen;
1353
                 jj_consume_token(-1);
1354
                 throw new ParseException();
1355
               }
1356
            }
1357
1358
        } catch (ParseException e) {
            recoverFromError( new int[] { SEMI, EOF }, e );
1359
1360
        }
1361
          {if (true) return expr ;}
1362
        throw new Error("Missing return statement in function");
1363
1364
1365
      final private JExpression postfixExpression() throws ParseException {
1366
        int line = 0;
1367
        <u>JExpression</u> primaryExpr = null;
1368
        try {
1369
          primaryExpr = primary();
```

```
1370
                                        line = primaryExpr.line();
1371
          label_17:
          while (true) {
1373
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1374
            case LBRACK:
1375
            case DOT:
1376
              break;
1377
1378
            default:
1379
              jj_la1[41] = jj_gen;
1380
              break label_17;
1381
1382
            primaryExpr = selector(primaryExpr);
1383
1384
          label_18:
1385
          while (true) {
1386
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1387
            case DEC:
1388
1389
              break;
1390
            default:
1391
              jj_la1[42] = jj_gen;
1392
              break label_18;
1393
            jj_consume_token(DEC);
1394
1395
                   primaryExpr =
                     new JPostDecrementOp( line, primaryExpr );
1396
1397
        Assignment Project Exam Help
1398
1399
1400
1401
          {if (true) return primaryExpr;}
1402
        throw new Error("Missing
                                         statement in function");
1403
                   https://powcoder.com
1404
1405
      final private <u>JExpression</u> selector(<u>JExpression</u> target) throws <u>ParseException</u> {
1406
        int line = 0;
        ArrayList<<u>JExpression</u> args unull;
1407
                                      Inat powcoder
        TypeName id (1); W

<u>JExpression</u> expr = null;
1408
1409
1410
        try {
1411
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1412
          case DOT:
            jj_consume_token(DOT);
1413
1414
                     line = token.beginLine;
1415
            id = qualifiedIdentifier();
1416
              expr =
                   new JFieldSelection( line, ambiguousPart( id ),
1417
1418
                                         target, id.simpleName() );
1419
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1420
            case LPAREN:
              args = arguments();
1421
1422
                   expr = new <u>JMessageExpression</u>( line, target,
1423
                       ambiguousPart( id ), id.simpleName(), args );
              break;
1424
1425
            default:
1426
              jj_la1[43] = jj_gen;
1427
1428
1429
            break;
1430
          case LBRACK:
1431
            jj_consume_token(LBRACK);
1432
                        line = token.beginLine;
1433
              expr = new JArrayExpression( line, target, expression() );
1434
            jj_consume_token(RBRACK);
1435
            break;
1436
          default:
1437
            jj_la1[44] = jj_gen;
1438
            jj_consume_token(-1);
```

```
1439
            throw new ParseException();
1440
1441
        } catch (ParseException e) {
1442
            recoverFromError( new int[] { SEMI, EOF }, e );
1443
1444
          {if (true) return expr;}
1445
        throw new Error("Missing return statement in function");
1446
1447
1448
      final private JExpression primary() throws ParseException {
1449
        int line = 0;
1450
        JExpression expr = null;
1451
        JExpression newTarget = null;
1452
        ArrayList<<u>JExpression</u>> args = null;
1453
        TypeName id = null;
1454
        try {
1455
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1456
          case LPAREN:
1457
            expr = parExpression();
1458
            break;
1459
          case THIS:
            jj_consume_token(THIS);
1460
1461
                      line = token.beginLine; expr = new <u>JThis</u>( line );
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1462
1463
            case LPAREN:
1464
              args = arguments();
1465
                   expr = new JThisConstruction( line, args );
1466
              break:
1467
            default:
              ssignment Project Exam Help
1468
1469
1470
            }
1471
            break;
          jj_consume_token(SUFEXOWCOder.com
1472
1473
1474
                       line = token.beginLine;
1475
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1476
            case LPAREN
              args Admen We Chat powcode!
expr = new JSuperConstruction( line, args );
1477
1478
1479
              break;
1480
            case DOT:
               jj_consume_token(DOT);
1481
1482
               jj_consume_token(IDENTIFIER);
1483
                     newTarget = new JSuper( line );
                     expr = new JFieldSelection( line, newTarget,
1484
1485
                                                   token.image );
              switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1486
1487
              case LPAREN:
                 args = arguments();
1488
1489
                       expr = new <u>JMessageExpression</u>( line, newTarget,
                           null, token.image, args );
1490
1491
                 break:
1492
              default:
1493
                 jj_la1[46] = jj_gen;
1494
1495
1496
              break;
            default:
1497
1498
              jj_la1[47] = jj_gen;
1499
              jj_consume_token(-1);
1500
              throw new ParseException();
1501
            }
            break;
1502
1503
          case FALSE:
1504
          case NULL:
1505
          case TRUE:
1506
          case INT LITERAL:
1507
          case CHAR LITERAL:
```

```
1508
          case STRING_LITERAL:
1509
             expr = literal();
1510
            break;
1511
          case NEW:
1512
            jj_consume_token(NEW);
1513
             expr = creator();
            break;
1514
          case IDENTIFIER:
1515
1516
            // Language is ambiguous here. JavaCC warns about not being
1517
                     // able to choose between qualifiedIdentifier and selector.
1518
                     // Semantic analysis will sort it out.
1519
                     id = qualifiedIdentifier();
1520
                 line = id.line();
1521
                 if ( ambiguousPart( id ) == null ) {
1522
                     expr = new JVariable( line, id.simpleName() );
1523
                 else {
1524
1525
                     expr = new <u>JFieldSelection</u>( line, ambiguousPart( id ),
1526
                                                    null, id.simpleName() );
1527
1528
            switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1529
            case LPAREN:
1530
               args = arguments();
1531
                   expr = new <u>JMessageExpression</u>( line, null,
1532
                        ambiguousPart( id ), id.simpleName(), args );
1533
               break;
1534
             default:
1535
               jj_la1[48] = jj_gen;
1536
            ssignment Project Exam Help
1537
1538
1539
          default:
1540
             jj_la1[49] = jj_gen;
             jj_consume4token(/1/);
throw new largesexcer 20 wcoder.com
1541
1542
1543
1544
        } catch (ParseException e) {
             recover From From (new int [] { SEMI, EOF }, e ), Add WeChat now Cod
1545
          Add We {if (true) return expr;}
1546
1547
        throw new Error("Missing return statement in function");
1548
1549
1550
1551
      final private JExpression creator() throws ParseException {
1552
        int line = 0;
1553
        \underline{\mathsf{Type}} type = null;
1554
        ArrayList<<u>JExpression</u>> args = null;
1555
        ArrayList<<u>JExpression</u>> dims = null;
1556
        <u>JArrayInitializer</u> init =
                                    null:
1557
        <u>JExpression</u> expr = null;
1558
        <u>Type</u> expected = null;
1559
        try {
1560
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1561
          case BOOLEAN:
1562
          case CHAR:
1563
          case INT:
1564
            type = basicType();
1565
            break;
1566
          case IDENTIFIER:
1567
             type = qualifiedIdentifier();
1568
            break;
1569
          default:
1570
             jj_la1[50] = jj_gen;
1571
             jj_consume_token(-1);
1572
             throw new ParseException();
1573
          }
1574
               line = token.beginLine; expected = type;
1575
          switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1576
          case LPAREN:
```

```
1577
            args = arguments();
1578
                  expr = new JNewOp( line, type, args );
1579
            break;
1580
          default:
1581
            jj_la1[52] = jj_gen;
            if (jj_2_9(2147483647)) {
1582
1583
              expr = newArrayDeclarator(type);
1584
            } else {
1585
              switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1586
              case LBRACK:
1587
                jj_consume_token(LBRACK);
1588
                jj_consume_token(RBRACK);
1589
                                     expected = new ArrayTypeName( expected
1590
        );
1591
                label_19:
1592
                while (true) {
1593
                  if (jj_2_8(2147483647)) {
1594
1595
                  } else {
                    break label_19;
1596
1597
1598
                  jj_consume_token(LBRACK);
                  jj_consume_token(RBRACK);
1599
                      expected = new ArrayTypeName( expected );
1600
1601
1602
                switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
                case LCURLY:
1603
1604
                  expr = arrayInitializer(expected);
1605
                  .break;
                                t Project Exam Help
                signmen
Larisi
1606
1607
1608
1609
              breakttps://powcoder.com
1610
1611
1612
                jj_la1[53] = jj<u>_</u>gen;
1613
                jj_consume_token(-1);
                Add WeChat powcoder
1614
1615
            }
1616
1617
1618
        } catch (ParseException e) {
1619
            expr = new JWildExpression( token.beginLine );
1620
            recoverFromError( new int[] { SEMI, EOF }, e );
1621
1622
          {if (true) return expr;}
1623
        throw new Error("Missing return statement in function");
1624
1625
1626
      final private <u>JNewArrayOp</u> newArrayDeclarator(<u>Type</u> type) throws <u>ParseException</u> {
1627
        int line = 0;
1628
        ArrayList<<u>JExpression</u>> dimensions = new ArrayList<<u>JExpression</u>>();
1629
        <u>JExpression</u> expr = null;
1630
        try {
1631
          jj_consume_token(LBRACK);
1632
                        line = token.beginLine;
          expr = expression();
1633
1634
              dimensions.add( expr ); type = new ArrayTypeName( type );
1635
          jj_consume_token(RBRACK);
1636
          label_20:
1637
          while (true) {
            if (jj_2_10(2147483647)) {
1638
1639
            } else {
1640
              break label_20;
1641
1642
            jj_consume_token(LBRACK);
1644
            expr = expression();
1645
                  dimensions.add( expr); type = new ArrayTypeName( type );
```

```
1646
                          jj_consume_token(RBRACK);
1647
1648
                      label_21:
1649
                     while (true) {
                          if (jj_2_11(2147483647)) {
1650
1651
                          } else {
1652
1653
                              break label_21;
1654
1655
                          jj_consume_token(LBRACK);
1656
                          jj_consume_token(RBRACK);
1657
                                                                              type = new ArrayTypeName( type );
1658
1659
                 } catch (ParseException e) {
1660
                          recoverFromError( new int[] { SEMI, EOF }, e );
1661
1662
                      {if (true) return new JNewArrayOp( line, type, dimensions );}
1663
                 throw new Error("Missing return statement in function");
1664
1665
1666
            final private JExpression literal() throws ParseException {
1667
                 JExpression expr = null;
1668
                 try {
1669
                     switch ((jj_ntk==-1)?jj_ntk():jj_ntk) {
1670
                     case INT LITERAL:
                          jj_consume_token(INT_LITERAL);
1671
1672
                              expr = new <u>JLiteralInt(</u> token.beginLine, token.image );
1673
                          break;
1674
                     case CHAR_LITERAL:
                              SO1SON 1948 PROJECT Exam Help; expression Julieral Char(taken. beginnine, token. image);
1675
1676
1677
                          break;
1678
                     case STRING_LITERAL:
                          jj_consumertoken(STRING LITERAL);
expr Https://powcoder.com
1679
1680
1681
                                       new <u>JLiteralString( token.beginLine, token.image );</u>
1682
                         break;
1683
                     case TRUE:
                          jj_consene()(ken MVUE)
                              _construction _c
1684
1685
1686
                          break;
1687
                     case FALSE:
1688
                          jj_consume_token(FALSE);
                              expr = new JLiteralFalse( token.beginLine );
1689
1690
                          break;
                     case NULL:
1691
                          jj_consume_token(NULL);
1692
                              expr = new <u>JLiteralNull(</u> token.beginLine );
1693
1694
                          break;
1695
                     default:
1696
                          jj_la1[54] = jj_gen;
1697
                          jj_consume_token(-1);
1698
                          throw new ParseException();
1699
1700
                 } catch (ParseException e) {
1701
                          expr = new JWildExpression( token.beginLine );
1702
                          recoverFromError( new int[] { SEMI, EOF }, e );
1703
                      {if (true) return expr;}
1704
1705
                 throw new Error("Missing return statement in function");
1706
1707
1708
             final private boolean jj_2_1(int xla) {
1709
                 jj_la = xla; jj_lastpos = jj_scanpos = token;
1710
                 try { return !jj_3_1(); }
1711
                 catch(LookaheadSuccess ls) { return true; }
1712
                 finally { jj_save(0, xla); }
1713
            }
1714
```

```
1715
      final private boolean jj_2_2(int xla) {
1716
        jj_la = xla; jj_lastpos = jj_scanpos = token;
1717
        try { return !jj_3_2(); }
1718
        catch(LookaheadSuccess ls) { return true; }
1719
        finally { jj_save(1, xla); }
1720
1721
1722
      final private boolean jj_2_3(int xla) {
1723
        jj_la = xla; jj_lastpos = jj_scanpos = token;
1724
        try { return !jj_3_3(); }
1725
        catch(LookaheadSuccess ls) { return true; }
1726
        finally { jj_save(2, xla); }
1727
1728
1729
      final private boolean jj_2_4(int xla) {
1730
        jj_la = xla; jj_lastpos = jj_scanpos = token;
1731
        try { return !jj_3_4(); }
1732
        catch(LookaheadSuccess ls) { return true; }
1733
        finally { jj_save(3, xla); }
1734
1735
1736
      final private boolean jj_2_5(int xla) {
1737
        jj_la = xla; jj_lastpos = jj_scanpos = token;
1738
        try { return !jj_3_5(); }
        catch(LookaheadSuccess ls) { return true; }
1739
1740
        finally { jj_save(4, xla); }
1741
1742
1743
      final private boolean jj_2_6(int xla) {
        JASSIZNIZONT Project Exam Help
1744
1745
        catch(LookaheadSuccess ls) { return true; }
1746
        finally { jj_save(5, xla); }
1747
      https://powcoder.com
final private boolean jj_2_7(int xla) {
1748
1749
1750
1751
        jj_la = xla; jj_lastpos = jj_scanpos = token;
        try { return !ji_3_7(); } catch(Looka/Hadis (dcess)) { learn pewcoder finally { jj_save(6, xla); }
1752
1753
1754
1755
1756
1757
      final private boolean jj_2_8(int xla) {
1758
        jj_la = xla; jj_lastpos = jj_scanpos = token;
        try { return !jj_3_8(); }
1759
        catch(LookaheadSuccess ls) { return true; }
1760
1761
        finally { jj_save(7, xla); }
1762
1763
1764
      final private boolean jj_2_9(int xla) {
1765
        jj_la = xla; jj_lastpos = jj_scanpos = token;
1766
        try { return !jj_3_9(); }
        catch(LookaheadSuccess ls) { return true; }
1767
1768
        finally { jj_save(8, xla); }
1769
1770
      final private boolean jj_2_10(int xla) {
1771
1772
        jj_la = xla; jj_lastpos = jj_scanpos = token;
1773
        try { return !jj_3_10(); }
1774
        catch(LookaheadSuccess ls) { return true; }
1775
        finally { jj_save(9, xla); }
1776
1777
1778
      final private boolean jj_2_11(int xla) {
1779
        jj_la = xla; jj_lastpos = jj_scanpos = token;
1780
        try { return !jj_3_11(); }
1781
        catch(LookaheadSuccess ls) { return true; }
1782
        finally { jj_save(10, xla); }
1783
```

```
1784
      final private boolean jj_3R_81() {
1785
1786
        if (jj_scan_token(DOT)) return true;
1787
        if (jj_scan_token(IDENTIFIER)) return true;
1788
        <u>Token</u> xsp;
1789
        xsp = jj_scanpos;
1790
        if (jj_3R_88()) jj_scanpos = xsp;
1791
        return false;
1792
1793
1794
      final private boolean jj_3R_80() {
1795
        if (jj_3R_87()) return true;
1796
        return false;
1797
1798
1799
      final private boolean jj_3R_111() {
1800
        if (jj_scan_token(COMMA)) return true;
1801
        if (jj_3R_110()) return true;
1802
        return false;
1803
1804
1805
      final private boolean jj_3_2() {
1806
        Token xsp;
1807
        xsp = jj_scanpos;
1808
        if (jj_scan_token(29)) {
        jj_scanpos = xsp;
1809
1810
        if (jj_3R_22()) return true;
1811
1812
        if (jj_scan_token(IDENTIFIER)) return true
        if Aissignment Project Exam Help
1813
1814
1815
      }
1816
      final private boolean jj/38 56() Coder.com
if (jj_scan_tote) STAR) POW Coder.com
1817
1818
        if (jj_3R_55()) return true;
1819
1820
        return false;
1821
      Add WeChat powcoder
1822
1823
1824
        if (jj_3R_87()) return true;
1825
        return false;
1826
1827
1828
      final private boolean jj_3R_73() {
1829
        if (jj_scan_token(SUPER)) return true;
1830
        <u>Token</u> xsp;
1831
        xsp = jj_scanpos;
1832
        if (jj_3R_80()) {
        jj_scanpos = xsp;
1833
1834
        if (jj_3R_81()) return true;
1835
1836
        return false;
1837
1838
1839
      final private boolean jj_3R_109() {
1840
        if (jj_3R_110()) return true;
1841
        <u>Token</u> xsp;
1842
        while (true) {
1843
          xsp = jj\_scanpos;
1844
          if (jj_3R_111()) { jj_scanpos = xsp; break; }
1845
1846
        return false;
1847
1848
1849
      final private boolean jj_3R_72() {
1850
        if (jj_scan_token(THIS)) return true;
1851
        Token xsp;
1852
        xsp = jj\_scanpos;
```

```
if (jj_3R_79()) jj_scanpos = xsp;
1853
1854
        return false;
1855
1856
1857
      final private boolean jj_3R_71() {
1858
        if (jj_3R_78()) return true;
1859
        return false;
1860
1861
1862
      final private boolean jj_3R_50() {
1863
        if (jj_3R_55()) return true;
1864
        <u>Token</u> xsp;
1865
        while (true) {
1866
          xsp = jj\_scanpos;
1867
          if (jj_3R_56()) { jj_scanpos = xsp; break; }
1868
1869
        return false;
1870
      }
1871
1872
      final private boolean jj_3R_68() {
1873
        Token xsp;
1874
        xsp = jj_scanpos;
1875
        if (jj_3R_71()) {
1876
        jj_scanpos = xsp;
1877
        if (jj_3R_72()) {
1878
        jj_scanpos = xsp;
1879
        if (jj_3R_73()) {
1880
        jj_scanpos = xsp;
        if (jj_3R_74()) {
1881
        if Assignment Project Exam Help
1882
1883
1884
        jj_scanpos = xsp;
        if (jj_3R_76()) return true;
1885
1886
                  https://powcoder.com
1887
1888
1889
1890
        return falsAdd WeChat powcoder
1891
1892
1893
1894
      final private boolean jj_3_1() {
        if (jj_scan_token(IDENTIFIER)) return true;
1895
        if (jj_scan_token(LPAREN)) return true;
1896
1897
        return false;
1898
1899
1900
      final private boolean jj_3R_27() {
        if (jj_3R_35()) return true;
1901
1902
        return false;
1903
1904
1905
      final private boolean jj_3R_108() {
1906
        if (jj_scan_token(LCURLY)) return true;
1907
        <u>Token</u> xsp;
1908
        xsp = jj_scanpos;
        if (jj_3R_109()) jj_scanpos = xsp;
1909
1910
        if (jj_scan_token(RCURLY)) return true;
1911
        return false;
1912
1913
1914
      final private boolean jj_3R_94() {
1915
        if (jj_scan_token(NULL)) return true;
1916
        return false;
1917
      }
1918
1919
      final private boolean jj_3R_93() {
1920
        if (jj_scan_token(FALSE)) return true;
1921
        return false;
```

```
1922
1923
1924
      final private boolean jj_3R_92() {
        if (jj_scan_token(TRUE)) return true;
1925
1926
        return false;
1927
1928
1929
     final private boolean jj_3R_58() {
1930
        if (jj_scan_token(MINUS)) return true;
1931
        if (jj_3R_50()) return true;
1932
        return false;
1933
      }
1934
1935
     final private boolean jj_3R_91() {
1936
        if (jj_scan_token(STRING_LITERAL)) return true;
1937
        return false;
1938
1939
1940
     final private boolean jj_3R_90() {
1941
        if (jj_scan_token(CHAR_LITERAL)) return true;
1942
        return false;
1943
      }
1944
1945
     final private boolean jj_3R_51() {
1946
        <u>Token</u> xsp;
1947
        xsp = jj\_scanpos;
1948
        if (jj_3R_57()) {
1949
        jj_scanpos = xsp;
       ASSIGnment Project Exam Help
1950
1951
1952
1953
      }
1954
      final private boolean jj/38 57() Coder.com
1955
1956
        if (jj_3R_50()) return true;
1957
1958
        return false;
1959
      Add WeChat powcoder
1960
1961
1962
        if (jj_scan_token(INT_LITERAL)) return true;
1963
        return false;
1964
1965
1966
      final private boolean jj_3R_113() {
1967
        if (jj_3R_27()) return true;
1968
        return false;
1969
1970
1971
      final private boolean jj_3R_82() {
1972
        <u>Token</u> xsp;
1973
        xsp = jj_scanpos;
1974
        if (jj_3R_89()) {
1975
        jj_scanpos = xsp;
1976
        if (jj_3R_90()) {
1977
        jj_scanpos = xsp;
1978
        if (jj_3R_91()) {
1979
        jj_scanpos = xsp;
1980
        if (jj_3R_92()) {
1981
        jj_scanpos = xsp;
1982
        if (jj_3R_93()) {
1983
        jj_scanpos = xsp;
1984
        if (jj_3R_94()) return true;
1985
1986
        }
1987
        }
1988
        }
1989
1990
       return false;
```

```
1991
1992
1993
      final private boolean jj_3R_112() {
1994
        if (jj_3R_108()) return true;
        return false;
1995
1996
1997
1998
      final private boolean jj_3R_86() {
1999
        if (jj_scan_token(LBRACK)) return true;
        if (jj_scan_token(RBRACK)) return true;
2001
        return false;
2002
2003
2004
      final private boolean jj_3R_100() {
        if (jj_3R_87()) return true;
2006
        return false;
2007
2008
2009
      final private boolean jj_3R_48() {
2010
        if (jj_3R_50()) return true;
2011
        Token xsp;
2012
        while (true) {
2013
          xsp = jj_scanpos;
2014
          if (jj_3R_51()) { jj_scanpos = xsp; break; }
2015
2016
        return false;
      }
2017
2018
      final private boolean jj_3R_110() { Token signature project Exam Help
2019
2020
2021
2022
        if (jj_3R_112()) {
2023
        jj_scanpos = xsp;
        https://powcoder.com
2024
2025
2026
        return false;
2027
2028
      final private Applean M3e 1 (hat powcoder if (jj_scan_token(DOT)) return true;
2029
2030
        if (jj_scan_token(IDENTIFIER)) return true;
2032
        return false;
2033
2034
2035
      final private boolean jj_3_11() {
2036
        if (jj_scan_token(LBRACK)) return true;
        if (jj_scan_token(RBRACK)) return true;
        return false;
2039
2040
2041
      final private boolean jj_3_10() {
2042
        if (jj_scan_token(LBRACK)) return true;
2043
        if (jj_3R_27()) return true;
2044
        if (jj_scan_token(RBRACK)) return true;
2045
        return false;
2047
2048
      final private boolean jj_3R_85() {
        if (jj_scan_token(DOT)) return true;
2050
        if (jj_3R_37()) return true;
2051
        <u>Token</u> xsp;
        xsp = jj\_scanpos;
        if (jj_3R_100()) jj_scanpos = xsp;
2054
        return false;
2055
      }
2056
2057
      final private boolean jj_3R_107() {
2058
        if (jj_scan_token(LBRACK)) return true;
2059
        if (jj_scan_token(RBRACK)) return true;
```

```
2060
       return false;
2061
     final private boolean jj_3_4() {
        if (jj_scan_token(ELSE)) return true;
2064
        return false;
2066
2067
2068
     final private boolean jj_3R_77() {
        <u>Token</u> xsp;
2070
        xsp = jj_scanpos;
2071
        if (jj_3R_85()) {
2072
        jj_scanpos = xsp;
2073
        if (jj_3R_86()) return true;
2074
2075
        return false;
2076
2077
2078
      final private boolean jj_3R_37() {
2079
        if (jj_scan_token(IDENTIFIER)) return true;
2080
        Token xsp;
2081
        while (true) {
2082
          xsp = jj_scanpos;
2083
          if (jj_3R_41()) { jj_scanpos = xsp; break; }
2084
2085
        return false;
2086
2087
2088
      final private boolean jj_3R_54() {.
        if Aissigning project Exam Help
2089
2090
2091
        return false;
2092
2093
      final private https://powcoder.com
2094
2095
        if (jj_scan_token(LBRACK)) return true;
2096
        if (jj_3R_27()) return true;
        return false and We Chat powcoder
2097
2099
2100
2101
      final private boolean jj_3R_53() {
        if (jj_scan_token(LE)) return true;
2102
2103
        if (jj_3R_48()) return true;
2104
        return false;
2105
2107
      final private boolean jj_3R_49() {
        <u>Token</u> xsp;
2109
        xsp = jj_scanpos;
2110
        if (jj_3R_52()) {
        jj_scanpos = xsp;
2111
2112
        if (jj_3R_53()) {
2113
        jj_scanpos = xsp;
2114
        if (jj_3R_54()) return true;
2115
2116
2117
        return false;
2118
2119
2120
      final private boolean jj_3R_52() {
2121
        if (jj_scan_token(GT)) return true;
2122
        if (jj_3R_48()) return true;
2123
        return false;
2124
      }
2125
2126
      final private boolean jj_3R_38() {
2127
        if (jj_scan_token(LBRACK)) return true;
2128
        if (jj_scan_token(RBRACK)) return true;
```

```
2129
        return false;
2131
      final private boolean jj_3R_36() {
        if (jj_scan_token(LBRACK)) return true;
        if (jj_scan_token(RBRACK)) return true;
2134
2135
        return false;
2136
2137
2138
      final private boolean jj_3R_102() {
2139
        if (jj_scan_token(LBRACK)) return true;
2140
        if (jj_3R_27()) return true;
2141
        if (jj_scan_token(RBRACK)) return true;
2142
        Token xsp;
2143
        while (true) {
2144
          xsp = jj_scanpos;
2145
          if (jj_3R_106()) { jj_scanpos = xsp; break; }
2146
2147
        while (true) {
2148
          xsp = jj_scanpos;
2149
          if (jj_3R_107()) { jj_scanpos = xsp; break; }
2150
2151
        return false;
2152
      }
2153
2154
      final private boolean jj_3R_34() {
2155
        if (jj_3R_37()) return true;
2156
        Token xsp;
        while (true) {
2157
          Assignment Project Exam Help
2158
2159
2160
        }
2161
        return false;
2162
                   https://powcoder.com
2163
2164
      final private bootean jj_3R_46() {
2165
        if (jj_3R_48()) return true;
2166
        <u>Token</u> xsp;
        xsp = jj_scalpold WeChat powcoder
if (jj_3R_49()) jj_scanpos = xsp;
                           WeC
2167
2168
2169
        return false;
2170
      }
2171
2172
      final private boolean jj_3R_70() {
        if (jj_scan_token(DEC)) return true;
2173
2174
        return false;
2175
2176
      final private boolean jj_3R_33() {
2177
2178
        if (jj_3R_25()) return true;
2179
        if (jj_scan_token(LBRACK)) return true;
2180
        if (jj_scan_token(RBRACK)) return true;
2181
        <u>Token</u> xsp;
        while (true) {
          xsp = jj_scanpos;
          if (jj_3R_36()) { jj_scanpos = xsp; break; }
2185
2186
        return false;
2187
2188
2189
      final private boolean jj_3R_69() {
2190
        if (jj_3R_77()) return true;
2191
        return false;
2192
2193
2194
      final private boolean jj_3R_26() {
2195
        Token xsp;
2196
        xsp = ii scanpos;
2197
        if (jj_3R_33()) {
```

```
2198
        jj_scanpos = xsp;
        if (jj_3R_34()) return true;
2201
        return false;
2204
      final private boolean jj_3_8() {
2205
        if (jj_scan_token(LBRACK)) return true;
2206
        if (jj_scan_token(RBRACK)) return true;
2207
        return false;
2208
2209
2210
      final private boolean jj_3R_67() {
2211
        if (jj_3R_68()) return true;
2212
        Token xsp;
2213
        while (true) {
2214
          xsp = jj_scanpos;
2215
          if (jj_3R_69()) { jj_scanpos = xsp; break; }
2216
2217
        while (true) {
2218
          xsp = ji_scanpos;
          if (jj_3R_70()) { jj_scanpos = xsp; break; }
2219
2220
2221
        return false;
2222
      }
2223
2224
      final private boolean jj_3R_104() {
        if (jj_3R_108()) return true;
2225
2226
        return false;
           Assignment Project Exam Help
2227
2228
2229
      final private boolean jj_3_9() {
2230
        if (jj_scan_token(LBRACK)) return true;
        if (jj_3R_47(4) return true wicoder.com
2231
2232
2233
        return false;
2234
2235
      final private App (an M3C 7 (hat powcoder if (jj_scan_token(EQUAL)) return true;
2236
2237
2238
        if (jj_3R_46()) return true;
2239
        return false;
2240
2241
2242
      final private boolean jj_3R_103() {
        if (jj_scan_token(LBRACK)) return true;
2243
2244
        if (jj_scan_token(RBRACK)) return true;
2245
        return false;
2246
2247
2248
      final private boolean jj_3_3() {
2249
        if (jj_3R_23()) return true;
2250
        if (jj_scan_token(IDENTIFIER)) return true;
2251
        return false;
2252
2253
2254
      final private boolean jj_3R_32() {
2255
        if (jj_scan_token(INT)) return true;
2256
        return false;
2257
2258
2259
      final private boolean jj_3R_99() {
2260
        if (jj_scan_token(LBRACK)) return true;
2261
        if (jj_scan_token(RBRACK)) return true;
2262
        Token xsp;
2263
        while (true) {
2264
          xsp = jj\_scanpos;
2265
          if (jj_3R_103()) { jj_scanpos = xsp; break; }
2266
        }
```

```
2267
        xsp = jj_scanpos;
        if (jj_3R_104()) jj_scanpos = xsp;
2269
        return false;
2270
2271
2272
      final private boolean jj_3R_31() {
2273
        if (jj_scan_token(CHAR)) return true;
2274
        return false;
2275
2276
2277
      final private boolean jj_3R_24() {
2278
        if (jj_3R_25()) return true;
2279
        if (jj_scan_token(LBRACK)) return true;
2280
        if (jj_scan_token(RBRACK)) return true;
2281
        return false;
2282
2283
2284
     final private boolean jj_3_7() {
2285
        if (jj_scan_token(LPAREN)) return true;
2286
        if (jj_3R_26()) return true;
2287
        if (jj_scan_token(RPAREN)) return true;
2288
        return false;
2289
2290
2291
      final private boolean jj_3R_30() {
        if (jj_scan_token(BOOLEAN)) return true;
2292
2293
        return false;
2294
2295
      fina Arsia in the Project Exam Help
2296
2297
2298
        return false;
2299
2300
      final private https://powcoder.com
2301
        if (jj_3R_46()) return true;
2302
2303
        <u>Token</u> xsp;
        while (true) {
    xsp = jj_Aquid; WeChat powcoder
    if (jj_3R_47()) { jj_scanpos = xsp_break; }
2304
2305
2306
2307
2308
        return false;
2309
2310
2311
      final private boolean jj_3R_97() {
2312
        if (jj_3R_87()) return true;
2313
        return false;
2314
2316
      final private boolean jj_3R_66() {
2317
        if (jj_3R_67()) return true;
        return false;
2318
2319
2320
2321
      final private boolean jj_3R_25() {
        Token xsp;
2323
        xsp = jj_scanpos;
2324
        if (jj_3R_30()) {
2325
        jj_scanpos = xsp;
2326
        if (jj_3R_31()) {
2327
        jj_scanpos = xsp;
2328
        if (jj_3R_32()) return true;
2329
2330
2331
        return false;
2332
2333
      final private boolean jj_3_6() {
2334
        if (jj_scan_token(LPAREN)) return true;
```

```
if (jj_3R_25()) return true;
2336
       if (jj_scan_token(RPAREN)) return true;
        return false;
2339
2341
     final private boolean jj_3R_96() {
2342
       if (jj_3R_37()) return true;
2343
        return false;
2344
2345
2346
     final private boolean jj_3R_95() {
2347
        if (jj_3R_25()) return true;
2348
        return false;
2349
2351
     final private boolean jj_3R_65() {
        if (jj_scan_token(LPAREN)) return true;
2353
        if (jj_3R_26()) return true;
2354
        if (jj_scan_token(RPAREN)) return true;
2355
        if (jj_3R_62()) return true;
2356
        return false;
2357
     }
2358
2359
     final private boolean jj_3_5() {
2360
       <u>Token</u> xsp;
2361
        xsp = jj\_scanpos;
2362
        if (jj_scan_token(52)) {
        jj_scanpos = xsp;
2363
       Assignment Project Exam Help
2364
2365
2366
2367
     }
2368
2369
     Token xsp; https://powcoder.com
2370
2371
        xsp = jj_scanpos
2372
        if (jj_3R_95()) {
        jj_scanpos =xsp;
if (jj_3R_9AddtuWteChat powcoder
2373
2374
2375
2376
       xsp = jj_scanpos;
2377
        if (jj_3R_97()) {
2378
        jj_scanpos = xsp;
2379
        if (jj_3R_98()) {
2380
        jj_scanpos = xsp;
2381
        if (jj_3R_99()) return true;
2382
2384
        return false;
2385
2386
2387
     final private boolean jj_3R_64() {
2388
        if (jj_scan_token(LPAREN)) return true;
2389
        if (jj_3R_25()) return true;
        if (jj_scan_token(RPAREN)) return true;
2391
        if (jj_3R_55()) return true;
2392
        return false;
2395
     final private boolean jj_3R_63() {
2396
        if (jj_scan_token(LNOT)) return true;
2397
        if (jj_3R_55()) return true;
2398
        return false;
2399
2400
2401
     final private boolean jj_3R_43() {
2402
        if (jj_scan_token(LAND)) return true;
2403
        if (jj_3R_42()) return true;
2404
        return false;
```

```
2405
2406
2407
      final private boolean jj_3R_29() {
2408
        if (jj_3R_25()) return true;
2409
        return false;
2410
2411
2412
      final private boolean jj_3R_62() {
2413
        Token xsp;
2414
        xsp = jj_scanpos;
2415
        if (jj_3R_63()) {
2416
        jj_scanpos = xsp;
2417
        if (jj_3R_64()) {
2418
        jj_scanpos = xsp;
2419
        if (jj_3R_65()) {
2420
        jj_scanpos = xsp;
2421
        if (jj_3R_66()) return true;
2422
2423
2424
2425
        return false;
2426
      }
2427
2428
      final private boolean jj_3R_28() {
2429
        if (jj_3R_26()) return true;
2430
        return false;
2431
2432
      final private boolean jj_3R_23() {
    Toke select Exam Help
    xsp = jj_scampos;
2433
2434
2435
2436
        if (jj_3R_28()) {
2437
        jj_scanpos = xsp;
        https://powcoder.com
2438
2439
2440
        return false;
2441
2442
      final private Applen Wae 9 hat powcoder
2443
2444
        if (jj_3R_42()) return true;
2445
        Token xsp;
2446
        while (true) {
2447
          xsp = jj_scanpos;
2448
          if (jj_3R_43()) { jj_scanpos = xsp; break; }
2449
2450
        return false;
2451
2452
2453
      final private boolean jj_3R_84() {
2454
        if (jj_3R_87()) return true;
2455
        return false;
2456
2457
2458
      final private boolean jj_3R_105() {
2459
        if (jj_scan_token(COMMA)) return true;
        if (jj_3R_27()) return true;
2461
        return false;
2462
2463
2464
      final private boolean jj_3R_61() {
2465
        if (jj_3R_62()) return true;
2466
        return false;
2467
2468
2469
      final private boolean jj_3R_101() {
2470
        if (jj_3R_27()) return true;
2471
        Token xsp;
2472
        while (true) {
2473
          xsp = jj_scanpos;
```

```
2474
          if (jj_3R_105()) { jj_scanpos = xsp; break; }
2475
2476
        return false;
2477
2478
2479
      final private boolean jj_3R_45() {
2480
        if (jj_scan_token(PLUS_ASSIGN)) return true;
2481
        if (jj_3R_35()) return true;
2482
        return false;
2483
2484
2485
     final private boolean jj_3R_78() {
2486
        if (jj_scan_token(LPAREN)) return true;
2487
        if (jj_3R_27()) return true;
2488
        if (jj_scan_token(RPAREN)) return true;
2489
        return false;
2490
2491
2492
      final private boolean jj_3R_60() {
2493
        if (jj_scan_token(MINUS)) return true;
2494
        if (jj_3R_55()) return true;
2495
        return false;
2496
2497
2498
      final private boolean jj_3R_44() {
2499
        if (jj_scan_token(ASSIGN)) return true;
2500
        if (jj_3R_35()) return true;
2501
        return false;
2502
     Assignment Project Exam Help
2503
2504
2505
        <u>Token</u> xsp;
2506
        xsp = jj_scanpos;
        if (jj_3R_4(1))s://powcoder.com
2507
2508
2509
        if (jj_3R_45()) return true;
2510
2511
        return false
                   Add WeChat powcoder
2512
2513
2514
      final private boolean jj_3R_59() {
        if (jj_scan_token(INC)) return true;
2515
        if (jj_3R_55()) return true;
2516
2517
        return false;
2518
2519
      final private boolean jj_3R_76() {
2520
2521
        if (jj_3R_37()) return true;
2522
        <u>Token</u> xsp;
        xsp = jj_scanpos;
2523
2524
        if (jj_3R_84()) jj_scanpos = xsp;
2525
        return false;
2526
2527
2528
      final private boolean jj_3R_55() {
        Token xsp;
2530
        xsp = jj_scanpos;
2531
        if (jj_3R_59()) {
2532
        jj_scanpos = xsp;
2533
        if (jj_3R_60()) {
2534
        jj_scanpos = xsp;
2535
        if (jj_3R_61()) return true;
2536
2537
2538
        return false;
2539
      }
2540
      final private boolean jj_3R_87() {
2541
2542
        if (jj_scan_token(LPAREN)) return true;
```

```
2543
                                          Token xsp;
  2544
                                          xsp = jj_scanpos;
                                           if (jj_3R_101()) jj_scanpos = xsp;
                                           if (jj_scan_token(RPAREN)) return true;
 2547
                                            return false;
 2549
 2550
                                final private boolean jj_3R_88() {
 2551
                                           if (jj_3R_87()) return true;
                                            return false;
 2554
2555
                                final private boolean jj_3R_35() {
2556
                                           if (jj_3R_39()) return true;
2557
                                          Token xsp;
2558
                                           xsp = jj\_scanpos;
2559
                                           if (jj_3R_40()) jj_scanpos = xsp;
2560
                                            return false;
2561
2562
2563
                                final private boolean jj_3R_75() {
2564
                                           if (jj_scan_token(NEW)) return true;
2565
                                           if (jj_3R_83()) return true;
2566
                                           return false;
2567
2568
2569
                                final private boolean jj_3R_74() {
                                           if (jj_3R_82()) return true;
2570
                                            return false;
2571
                                                                Assignment Project Exam Help
2572
2573
2574
                                final private boolean jj_3R_22() {
                                           if (jj_3R_23()) return true;
2575
                                           return falshittps://powcoder.com
2576
2577
2578
2579
                                public JavaCCParserTokenManager token_source;
2580
                                SimpleCharStream jjinput stream; public Token Fakel jj W; e
                                                                                                                                                                                                Inat powcoder
2581
2582
                                private int jj_ntk;
2583
                                private Token jj_scanpos, jj_lastpos;
                                private int jj_la;
2584
2585
                                public boolean lookingAhead = false;
                                private boolean jj_semLA;
2586
2587
                                private int jj_gen;
2588
                                final private int[] jj_la1 = new int[55];
2589
                                static private int[] jj_la1_0;
2590
                                static private int[] jj_la1_1;
                                static {
2591
                                                      jj_la1_0();
 2592
 2593
                                                      jj_la1_1();
 2594
 2595
                                     private static void jj_la1_0() {
                                                      jj_la1_0 = new int[]
 \{0 \times 1000000, 0 \times 80000, 0 \times 2e00480, 0 \times 0, 0 \times 2e00080, 0 \times 2e00080, 0 \times 1000, 0 \times 2e220380, 0 \times 20020300, 0 \times 0, 0 \times 1000, 0 \times 1000
x20300,0x5d0e6300,0x5d0c6000,0x1c0c2000,0x5d0c6000,0x0,0x20300,0x0,0x0,0x1c0c2000,0x0
  ,0x1c0c2000,0x0,0x1c0c2000,0x20300,0x20300,0x0,0x0,0x20300,0x0,0x0,0x0,0x0,0x0,0x10000,0x
10000,0 \times 80000000,0 \times 80000000,0 \times 0,0 \times 1 c0c2000,0 \times 0,0 \times 1 c0c2000,0 \times 0,0 \times 
 ,0x0,0x1c0c2000,0x20300,0x0,0x0,0x0,0x10082000,};
 2597
2598
                                     private static void jj_la1_1() {
2599
                                                      jj_la1_1 = new int[]
 00,0x7100990,0x0,0x0,0x8000,0x8000,0x100000,0x201,0x201,0x20,0x4,0x48,0x48,0x100,0x10
0,0 \times 400,0 \times 7100990,0 \times 80,0 \times 7100800,0 \times 88000,0 \times 2,0 \times 800,0 \times 88000,0 \times 800,0 \times 800,0 \times 8000,0 \times 800,0 \times 800,
0x7100800, 0x100000, 0x2000, 0x800, 0x8000, 0x7000000, };
                                final private JJCalls[] jj_2_rtns = new JJCalls[11];
```

```
2602
     private boolean jj_rescan = false;
     private int jj_gc = 0;
2604
     public JavaCCParser(java.io.InputStream stream) {
         this(stream, null);
     public JavaCCParser(java.io.InputStream stream, String encoding) {
2608
2609
        try { jj_input_stream = new <u>SimpleCharStream(stream</u>, encoding, 1, 1); }
catch(java.io.UnsupportedEncodingException e) { throw new RuntimeException(e); }
2610
        token_source = new JavaCCParserTokenManager(jj_input_stream);
2611
        token = new Token();
2612
        jj_ntk = -1;
2613
        jj_gen = 0;
2614
        for (int i = 0; i < 55; i++) jj_la1[i] = -1;
2615
        for (int i = 0; i < jj_2rtns.length; i++) jj_2rtns[i] = new JJCalls();
2616
     }
2617
2618
     public void ReInit(java.io.InputStream stream) {
2619
         ReInit(stream, null);
2620
2621
     public void ReInit(java.io.InputStream stream, String encoding) {
2622
        try { jj_input_stream.ReInit(stream, encoding, 1, 1); }
catch(java.io.UnsupportedEncodingException e) { throw new RuntimeException(e); }
        token_source.ReInit(jj_input_stream);
2624
        token = new Token();
2625
        jj_ntk = -1;
        jj_gen = 0;
2626
2627
        for (int i = 0; i < 55; i++) jj_la1[i] = -1;</pre>
       2628
2629
2630
     public JavaCCParser(java.io.Reader stream) {
2631
2632
        jj_input_stream = new <u>SimpleCharStream(stream, 1, 1);</u>
        token_sourder(new_layaCCParser,TokenMinager(ii input_stream);
token = new role();//DOWCOUCI.COM
2633
2634
2635
        jj_ntk = -1;
2636
        jj_gen = 0;
        2637
2638
2639
2640
2641
     public void ReInit(java.io.Reader stream) {
2642
        jj_input_stream.ReInit(stream, 1, 1);
        token_source.ReInit(jj_input_stream);
2643
2644
        token = new Token();
        jj_ntk = -1;
        jj_gen = 0;
2647
        for (int i = 0; i < 55; i++) jj_la1[i] = -1;</pre>
        for (int i = 0; i < jj_2_rtns.length; i++) jj_2_rtns[i] = new JJCalls();</pre>
2648
2649
2650
2651
     public JavaCCParser(<u>JavaCCParserTokenManager</u> tm) {
        token_source = tm;
2652
        token = new Token();
2654
        jj_ntk = -1;
        jj_gen = 0;
        for (int i = 0; i < 55; i++) jj_la1[i] = -1;</pre>
2656
2657
        for (int i = 0; i < jj_2rtns.length; i++) jj_2rtns[i] = new JJCalls();
2658
2659
     public void ReInit(JavaCCParserTokenManager tm) {
2661
        token_source = tm;
        token = new Token();
2663
        jj_ntk = -1;
2664
        jj_gen = 0;
2665
        for (int i = 0; i < 55; i++) jj_la1[i] = -1;
2666
        for (int i = 0; i < jj_2_rtns.length; i++) jj_2_rtns[i] = new JJCalls();
2667
     }
```

```
2669
      final private Token jj_consume_token(int kind) throws ParseException {
        Token oldToken;
2671
        if ((oldToken = token).next != null) token = token.next;
2672
        else token = token.next = token_source.getNextToken();
        jj_ntk = -1;
        if (token.kind == kind) {
2674
2675
          jj_gen++;
          if (++jj_gc > 100) {
2676
2677
            jj_gc = 0;
2678
            for (int i = 0; i < jj_2_rtns.length; i++) {</pre>
               JJCalls c = jj_2_rtns[i];
2679
               while (c != null) {
2681
                 if (c.gen < jj_gen) c.first = null;</pre>
2682
                 c = c.next;
2683
               }
            }
2684
2685
2686
          return token;
2687
2688
        token = oldToken;
2689
        jj_kind = kind;
2690
        throw generateParseException();
2691
2692
2693
      static private final class LookaheadSuccess extends java.lang.Error { }
2694
      final private LookaheadSuccess jj_ls = new LookaheadSuccess();
2695
      final private boolean jj_scan_token(int kind) {
2696
        if (jj_scanpos == jj_lastpos) {
          ji_la--;
2697
            Sistempent of Project Exam Help

[] Lastons = jj_scanpos = jj_scanpos.next = token_source.getNextToken();
2698
2699
2700
          } else {
2701
             jj_lastpos = jj_scanpos = jj_scanpos.next;
2702
                    https://powcoder.com
2703
        } else {
2704
          jj_scanpos = jj_scanpos.next;
2705
2706
        if (jj_rescan) {
          int i = 0.7161c1 tw-ekenat powcoder
while (tok != null && tok != jj_scanpos) { i++; tok = tok.next; }
2707
2708
2709
          if (tok != null) jj_add_error_token(kind, i);
2710
        if (jj_scanpos.kind != kind) return true;
2711
        if (jj_la == 0 && jj_scanpos == jj_lastpos) throw jj_ls;
2712
2713
        return false;
2714
2715
      final public Token getNextToken() {
2716
        if (token.next != null) token = token.next;
2717
2718
        else token = token.next = token_source.getNextToken();
2719
        jj_ntk = -1;
2720
        jj_gen++;
        return token;
2721
2722
2723
2724
      final public Token getToken(int index) {
2725
        <u>Token</u> t = lookingAhead ? jj_scanpos : token;
2726
        for (int i = 0; i < index; i++) {</pre>
2727
          if (t.next != null) t = t.next;
2728
          else t = t.next = token_source.getNextToken();
2729
2730
        return t;
2731
2732
2733
      final private int jj_ntk() {
2734
        if ((jj_nt=token.next) == null)
          return (jj_ntk = (token.next=token_source.getNextToken()).kind);
2735
2736
2737
          return (jj_ntk = jj_nt.kind);
```

```
2738
2739
2740
      private java.util.Vector jj_expentries = new java.util.Vector();
2741
      private int[] jj_expentry;
2742
      private int jj_kind = -1;
2743
      private int[] jj_lasttokens = new int[100];
2744
      private int jj_endpos;
2745
2746 private void jj_add_error_token(int kind, int pos) {
2747
        if (pos >= 100) return;
2748
        if (pos == jj_endpos + 1) {
2749
          jj_lasttokens[jj_endpos++] = kind;
2750
        } else if (jj_endpos != 0) {
2751
          jj_expentry = new int[jj_endpos];
          for (int i = 0; i < jj_endpos; i++) {</pre>
2752
2753
             jj_expentry[i] = jj_lasttokens[i];
2754
2755
          boolean exists = false;
2756
          for (java.util.Enumeration e = jj_expentries.elements();
e.hasMoreElements();) {
             int[] oldentry = (int[])(e.nextElement());
2758
             if (oldentry.length == jj_expentry.length) {
2759
               exists = true;
2760
               for (int i = 0; i < jj_expentry.length; i++) {</pre>
                 if (oldentry[i] != jj_expentry[i]) {
2761
2762
                   exists = false;
2763
                   break;
                 }
2764
2765
              ssignment Project Exam Help
2766
2767
2768
2769
          if (!exists) jj_expentries.addElement(jj_expentry);
          if (pos https://powcoder.com] = kind;
2770
2771
2772
      }
2773
      public ParseException generateRarseException() {
    jj_expentrieA. Grove AtVE entago: DOW COCET
    boolean[] laitokens = new boolean[61];
2774
2775
2776
2777
        for (int i = 0; i < 61; i++) {
           la1tokens[i] = false;
2779
        if (jj_kind >= 0) {
2780
           la1tokens[jj_kind] = true;
2781
2782
          jj_kind = -1;
2783
        for (int i = 0; i < 55; i++) {
2784
2785
          if (jj_la1[i] == jj_gen) {
             for (int j = 0; j < 32; j++) {
  if ((jj_la1_0[i] & (1<<j)) != 0) {</pre>
2786
2787
2788
                 la1tokens[j] = true;
2789
2790
               if ((jj_la1_1[i] & (1<<j)) != 0) {</pre>
2791
                 la1tokens[32+j] = true;
2792
2793
             }
          }
2794
2795
        for (int i = 0; i < 61; i++) {
2796
2797
          if (la1tokens[i]) {
2798
             jj_expentry = new int[1];
2799
             jj_expentry[0] = i;
2800
             jj_expentries.addElement(jj_expentry);
          }
2801
2802
2803
        jj_endpos = 0;
2804
        ii rescan token();
        jj_add_error_token(0, 0);
```

```
int[][] exptokseq = new int[jj_expentries.size()][];
        for (int i = 0; i < jj_expentries.size(); i++) {</pre>
          exptokseq[i] = (int[])jj_expentries.elementAt(i);
2809
2810
        return new ParseException(token, exptokseq, tokenImage);
2811
2813
      final public void enable_tracing() {
2814
2815
2816
      final public void disable_tracing() {
2817
2818
2819
      final private void jj_rescan_token() {
2820
        jj_rescan = true;
2821
        for (int i = 0; i < 11; i++) {
2822
2823
          JJCalls p = jj_2_rtns[i];
2824
            if (p.gen > jj_gen) {
2825
              jj_la = p.arg; jj_lastpos = jj_scanpos = p.first;
2826
2827
              switch (i) {
2828
                case 0: jj_3_1(); break;
                case 1: jj_3_2(); break;
2829
2830
                case 2: jj_3_3(); break;
2831
                case 3: jj_3_4(); break;
2832
                case 4: jj_3_5(); break;
2833
                case 5: jj_3_6(); break;
             scase 6: jj_3_7(); break; ject Exam Help
2834
2835
2836
2837
                case 9: jj_3_10(); break;
2838
                case 10: jj_3_11(); break;
2839
                  https://powcoder.com
2840
            }
2841
            p = p.next;
2842
          } while (p != null);
          Add WeChat powcoder
2843
        }
jj_rescan = false;
2844
2845
2846
2847
2848
      final private void jj_save(int index, int xla) {
2849
        JJCalls p = jj_2_rtns[index];
2850
        while (p.gen > jj_gen) {
2851
          if (p.next == null) { p = p.next = new JJCalls(); break; }
          p = p.next;
2854
        p.gen = jj_gen + xla - jj_la; p.first = token; p.arg = xla;
2855
2856
2857
      static final class JJCalls {
2858
        int gen;
2859
        <u>Token</u> first;
2860
        int arg;
2861
        JJCalls next;
2862
2863
2864}
```