Quantification Annotation Challenge

This document contains both 7 annotated test sentences from the Quantification Annotation Challenge (Section 1), and several fixed annotated sentences from the annotation guidelines (Section 2).

1 Annotated Test Sentences

Annotation of sentence 1: *Some of the students failed the exam.*

```
<sentences>
  <sentence xml:id="s01">
    <quote>Some of the students failed the exam.</quote>
    <markables>
      <markable id="m1">Some of the students</markable>
      <markable id="m2">students</markable>
      <markable id="m3">failed</markable>
      <markable id="m4">the exam</markable>
      <markable id="m5">exam</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="some"
          definiteness="det"/>
      <sourceDomain xml:id="x2" target="m2" individuation="count" pred="student"/>
      <event xml:id="e1" target="m3" pred="fail"/>
      <entity xml:id="x3" target="m4" domain="x4" involvement="single"
          definiteness="det"/>
      <sourceDomain xml:id="x4" target="m5" individuation="count" pred="exam"/>
      <participation event="e1" participant="x1" semRole="agent" distr="individual"
          evScope="narrow"/>
      <participation event="e1" participant="x3" semRole="theme" distr="individual"
          evScope="narrow"/>
      <scoping arg1="x1" arg2="x3" scopeRel="unscoped"/>
    </annotation>
  </sentence>
</sentences>
```

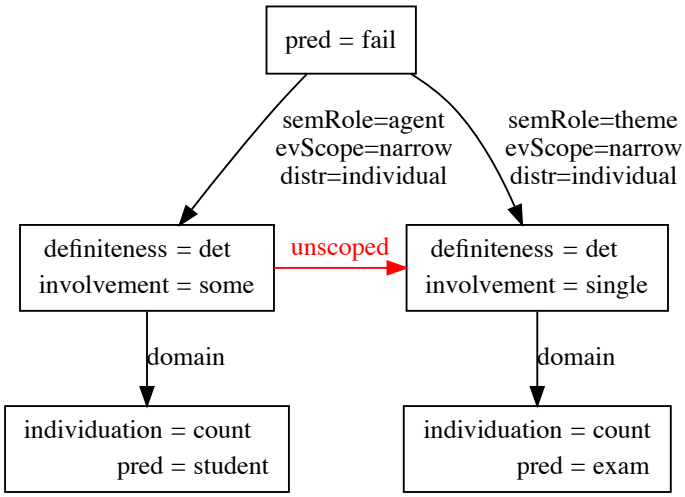

Figure 1: Graphical representation of sentence 1

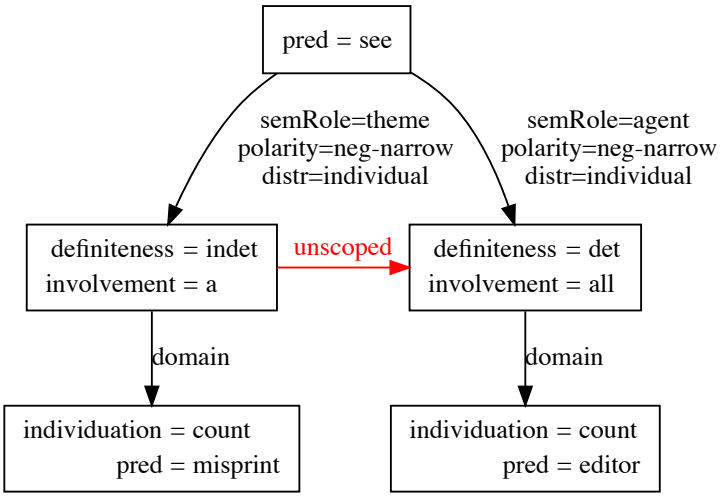

Figure 2: Graphical representation of sentence 5 (specific reading)

Annotation of sentence 5 (specific reading) : *The editors didn't see a misprint.*

```
<sentences>
  <sentence xml:id="s05">
    <quote>The editors didn't see a misprint.</quote>
    <markables>
      <markable id="m1">The editors</markable>
      <markable id="m2">editors</markable>
      <markable id="m3">see</markable>
      <markable id="m4">a misprint</markable>
      <markable id="m5">misprint</markable>
    </markables>
    <!— Two annotations for the specific and non-specific readings —>
    <!— Ambiguity cannot be described by the annotation —>
    <annotation>
      <!— Specific reading: There is a misprint that the editors didn't see —>
      <entity xml:id="x1.1" target="m1" domain="x1.2" involvement="all"
          definiteness="det"/>
      <sourceDomain xml:id="x1.2" target="m2" individuation="count" pred="editor"/>
      <event xml:id="e1.1" target="m3" pred="see"/>
      <entity xml:id="x1.3" target="m4" domain="x1.4" involvement="a"
          definiteness="indet"/>
      <sourceDomain xml:id="x1.4" target="m5" individuation="count" pred="misprint"/>
      <participation event="e1.1" participant="x1.1" semRole="agent"
          distr="individual" polarity="neg-narrow"/>
      <participation event="e1.1" participant="x1.3" semRole="theme"
          distr="individual" polarity="neg-narrow"/>
      <scoping arg1="x1.3" arg2="x1.1" scopeRel="unscoped"/>
    </annotation>
    <annotation>
      <!— Specific reading: There is a misprint that the editors didn't see —>
      <entity xml:id="x2.1" target="m1" domain="x2.2" involvement="all"
          definiteness="det"/>
      <sourceDomain xml:id="x2.2" target="m2" individuation="count" pred="editor"/>
      <event xml:id="e2.1" target="m3" pred="see"/>
      <entity xml:id="x2.3" target="m4" domain="x2.4" involvement="a"
          definiteness="indet"/>
      <sourceDomain xml:id="x2.4" target="m5" individuation="count" pred="misprint"/>
      <!— TODO: distr="collective" or distr="unspecific" —>
      <participation event="e2.1" participant="x2.1" semRole="agent" distr="collective
          " polarity="neg-narrow"/>
      <participation event="e2.1" participant="x2.3" semRole="theme"
          distr="individual" polarity="neg-wide"/>
      <scoping arg1="x2.3" arg2="x2.1" scopeRel="unscoped"/>
    </annotation>
  </sentence>
</sentences>
```

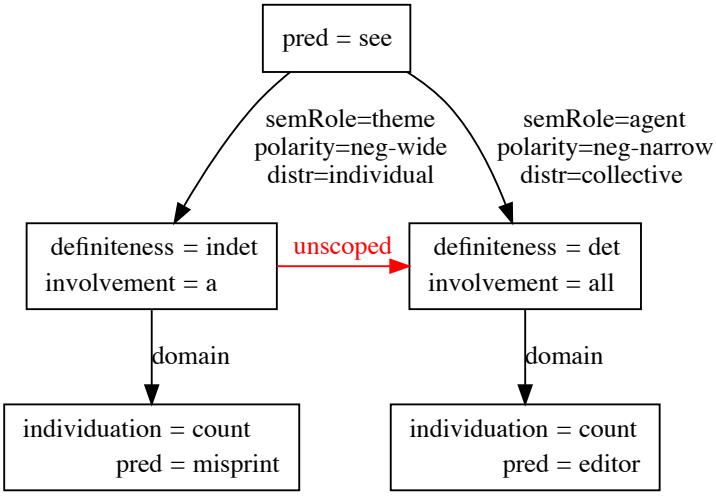

Figure 3: Second graphical representation of sentence 5 (non-specific reading)

Annotation of sentence 7: *A man who walks in the park whistles.*

```
<sentences>
  <sentence xml:id="s07">
    <quote>A man who walks in the park whistles.</quote>
    <markables>
      <markable id="m1">A man</markable>
      <markable id="m2">A man who walks in the park</markable>
      <markable id="m3">who walks in the park</markable>
      <markable id="m4">walks</markable>
      <markable id="m5">the park</markable>
      <markable id="m6">whistles</markable>
      <!-- The following markables are added -->
      <markable id="m7">park</markable>
    </markables>
    <!-- Annotation aiming at following the annotation guidelines for relative clauses
        -->
    <annotation>

      <!-- A man who walk in the park -->
      <entity xml:id="x2" target="m2" domain="d2" involvement="a"
          definiteness="indet"/>
      <qDomain xml:id="d2" target="m3" source="x1" restrictions="c1"/>
      <sourceDomain xml:id="x1" target="m1" individuation="count" pred="man"/>

      <!-- whistles -->
      <event xml:id="e2" target="m6" pred="whistle"/>
      <participation event="e2" participant="x2" semRole="agent" distr="individual"/>

      <!-- relative clause -->

      <!-- TODO: linking="linear" or "inverse"? -->
      <!-- What exactly is the semRole of a clause?: p52 of the
           ISO WD, "the linguistic information in a relative clause
           modifier structure has the form (B20), in which R a is the
           'missing' semantic role and alpha_RC is the annotation
           structure of the combination of events and participants in
           the RC (...) The component alpha_RC has the same structure as
           the annotation structure of a main clause" -->
      <relClause xml:id="c1" target="m3" semRole="agent" clause="e4"
          distr="individual" linking="linear"/>

      <!-- walks in the park-->
      <event xml:id="e4" target="m4" pred="walk"/>
      <!-- the park -->
      <entity xml:id="x5" target="m5" domain="x7" involvement="single"
          definiteness="det"/>
      <sourceDomain xml:id="x7" target="m7" individuation="count" pred="park"/>
      <!-- in PP -->
      <participation event="e4" participant="x5" semRole="location"
          distr="individual"/>
    </annotation>
  </sentence>

</sentences>
```

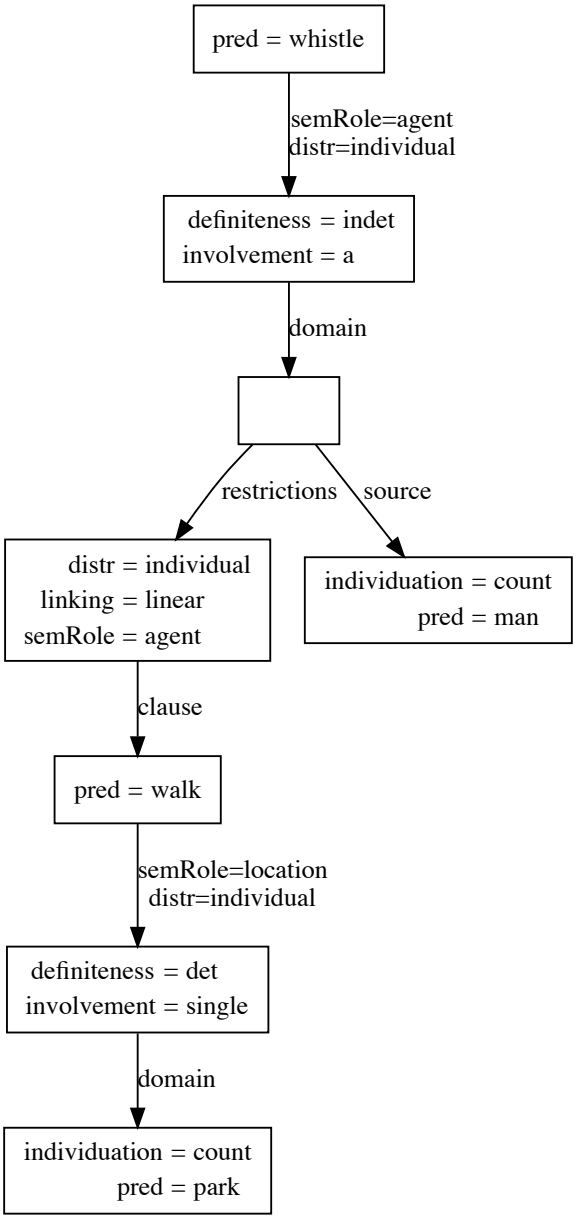

Figure 4: Graphical representation of sentence 7

Annotation of sentence 7 (alternative annotation with different markables): *A man who walks in the park whistles.*

```
<sentences>
  <!— alternative annotation for sentence 7 with an other set of markables —>
  <sentence xml:id="s07_7">
    <quote>A man who walks in the park whistles.</quote>
    <markables>
      <markable id="m1">A man who walks in the park</markable>
      <markable id="m2">man who walks in the park</markable>
      <markable id="m3">man</markable>
      <markable id="m4">who walks in the park</markable>
      <markable id="m5">walks</markable>
      <markable id="m6">the park</markable>
      <markable id="m7">park</markable>
      <markable id="m8">whistles</markable>
    </markables>
    <!— Annotation aiming at following the annotation guidelines for relative clauses
       —>
    <annotation>

      <!— A man who walk in the park —>
      <entity xml:id="x1" target="m1" domain="d1" involvement="a"
          definiteness="indet"/>
      <qDomain xml:id="d1" target="m2" source="x3" restrictions="c4"/>
      <sourceDomain xml:id="x3" target="m3" individuation="count" pred="man"/>

      <!— whistles —>
      <event xml:id="e6" target="m6" pred="whistle"/>
      <participation event="e6" participant="x1" semRole="agent" distr="individual"/>

      <!— relative clause —>

      <!— TODO: linking="linear" or "inverse"? —>
      <!— What exactly is the semRole of a clause?: p52 of the
           ISO WD, "the linguistic information in a relative clause
           modifier structure has the form (B20), in which R a is the
           'missing' semantic role and alpha_RC is the annotation
           structure of the combination of events and participants in
           the RC (...) The component alpha_RC has the same structure as the
           annotation structure of a main clause" —>
      <relClause xml:id="c4" target="m4" semRole="agent" clause="e5"
          distr="individual" linking="linear"/>

      <!— walks in the park—>
      <event xml:id="e5" target="m5" pred="walk"/>
      <!— the park —>
      <entity xml:id="x6" target="m6" domain="x7" involvement="single"
          definiteness="det"/>
      <sourceDomain xml:id="x7" target="m7" individuation="count" pred="park"/>
      <!— in PP —>
      <participation event="e5" participant="x6" semRole="location"
          distr="individual"/>
    </annotation>
  </sentence>
</sentences>
```

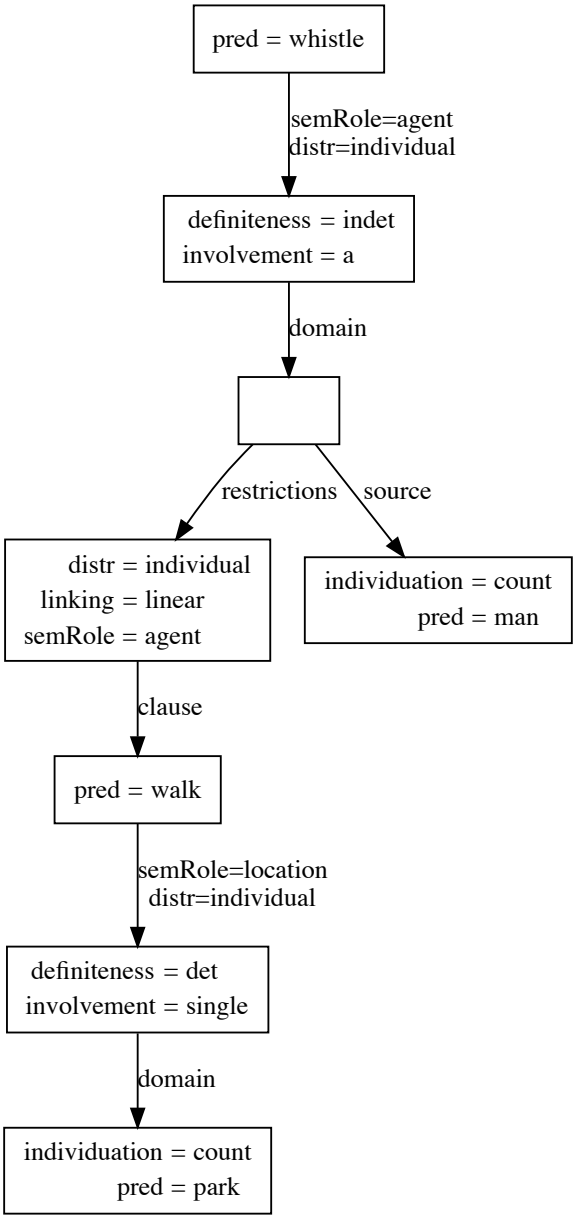

Figure 5: Graphical representation of sentence 7 (alternative annotation with different markables)

Annotation of sentence 8: *Mary visits a museum every day.*

```
<sentences>
  <sentence xml:id="s08">
    <quote>Mary visits a museum every day.</quote>
    <markables>
      <markable id="m1">Mary</markable>
      <markable id="m2">visits</markable>
      <markable id="m3">a museum</markable>
      <markable id="m4">museum</markable>
      <markable id="m5">every day</markable>
      <markable id="m6">day</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="single"
          definiteness="det"/>
      <sourceDomain xml:id="x2" target="m1" individuation="count" pred="Mary"/>
      <event xml:id="e1" target="m2" pred="visit"/>
      <entity xml:id="x3" target="m3" domain="x4" involvement="a"
          definiteness="indet"/>
      <sourceDomain xml:id="x4" target="m4" individuation="count" pred="museum"/>
      <entity xml:id="x5" target="m5" domain="x6" involvement="every"
          definiteness="det"/>
      <sourceDomain xml:id="x6" target="m6" individuation="count" pred="day"/>
      <participation event="e1" participant="x1" semRole="agent" distr="single"
          evScope="free"/>
      <participation event="e1" participant="x5" semRole="time" distr="individual"
          evScope="narrow"/>
      <!-- TODO: evScope is set to narrow (default), not ?: there is a visit event per
          museum -->
      <participation event="e1" participant="x3" semRole="theme" distr="individual"
          evScope="narrow"/>
      <scoping arg1="x1" arg2="x5" scopeRel="unscoped"/>
      <scoping arg1="x1" arg2="x3" scopeRel="unscoped"/>
      <!-- TODO: Does "a museum" outscope "every day" (=> wider) or the other way
          around (=> narrower) -->
      <scoping arg1="x3" arg2="x5" scopeRel="wider"/>
    </annotation>
  </sentence>
</sentences>
```

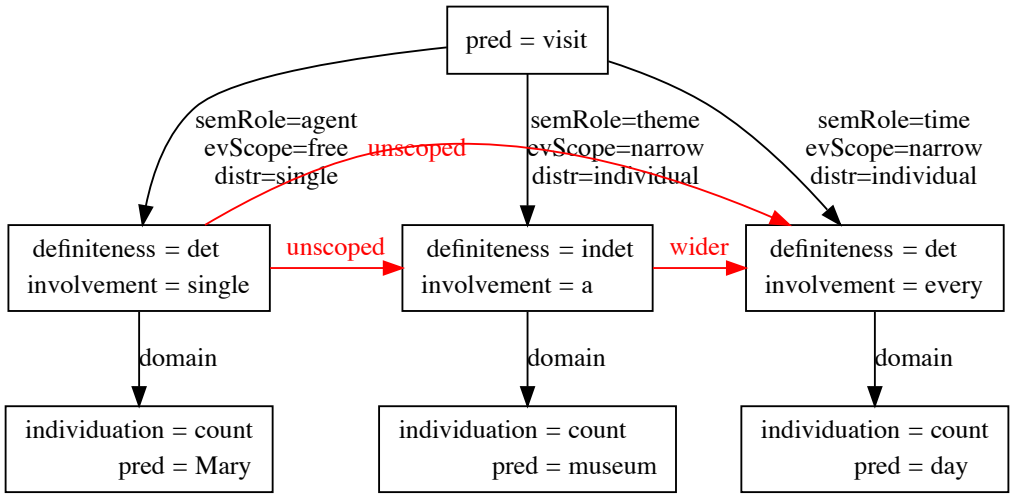

Figure 6: Graphical representation of sentence 8

Annotation of sentence 11: *Not all the students passed the exam.*

```
<sentences>
  <sentence xml:id="s11">
    <quote>Not all the students passed the exam.</quote>
    <markables>
      <markable id="m1">all the students</markable>
      <markable id="m2">students</markable>
      <markable id="m3">passed</markable>
      <markable id="m4">the exam</markable>
      <markable id="m5">exam</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="all"
          definiteness="det"/>
      <sourceDomain xml:id="x2" target="m2" individuation="count" pred="student"/>
      <event xml:id="e1" target="m3" pred="pass"/>
      <entity xml:id="x3" target="m4" domain="x4" involvement="single"
          definiteness="det"/>
      <sourceDomain xml:id="x4" target="m5" individuation="count" pred="exam"/>
      <participation event="e1" participant="x1" semRole="agent" distr="individual"
          polarity="neg-wide"/>
      <participation event="e1" participant="x3" semRole="theme" distr="individual"/>
      <scoping arg1="x3" arg2="x1" scopeRel="unscoped"/>
    </annotation>
  </sentence>

</sentences>
```

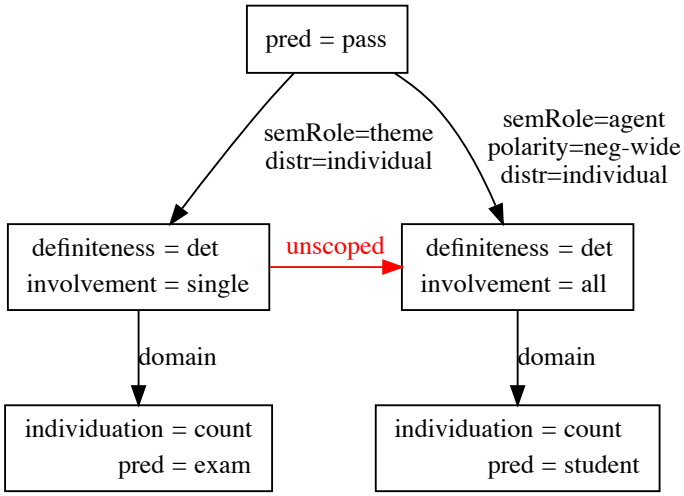

Figure 7: Graphical representation of sentence 11

Annotation of sentence 12: *Most of the students passed the exam.*

```
<sentences>
  <sentence xml:id="s12">
    <quote>Most of the students passed the exam.</quote>
    <markables>
      <!— Markables in the sentence list does not seem to be correct —>
      <markable id="m1">most of the students</markable>
      <!— The following markable should not be marked —>
      <markable id="m2">most</markable>
      <!— —>
      <markable id="m3">students</markable>
      <markable id="m4">passed</markable>
      <markable id="m5">the exam</markable>
      <markable id="m6">exam</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="most"
          definiteness="det"/>
      <sourceDomain xml:id="x2" target="m3" individuation="count" pred="student"/>
      <event xml:id="e1" target="m4" pred="pass"/>
      <entity xml:id="x3" target="m5" domain="x4" involvement="single"
          definiteness="det"/>
      <sourceDomain xml:id="x4" target="m6" individuation="count" pred="exam"/>
      <participation event="e1" participant="x1" semRole="agent" distr="individual"/>
      <participation event="e1" participant="x3" semRole="theme" distr="individual"/>
      <scoping arg1="x1" arg2="x3" scopeRel="unscoped"/>
    </annotation>
  </sentence>
</sentences>
```

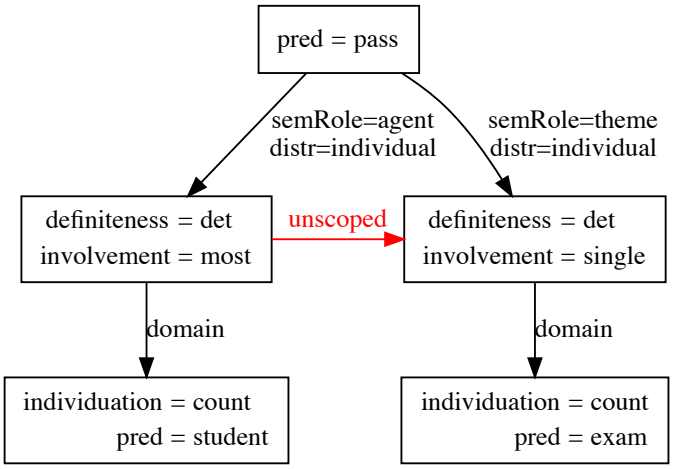

Figure 8: Graphical representation of sentence 12

Annotation of sentence 31: *More than four hundred ships are waiting to pass through the Suez Canal.*

```
<sentences>
  <sentence xml:id="s31">
    <quote>More than four hundred ships are waiting to pass through the Suez
        Canal.</quote>
    <markables>
      <markable id="m1">more than four hundred</markable>
      <markable id="m2">more than four hundred ships</markable>
      <markable id="m3">ships</markable>
      <markable id="m4">are waiting</markable>
      <markable id="m5">to pass through</markable>
      <markable id="m6">to pass through the Suez Canal</markable>
      <markable id="m7">the Suez Canal</markable>
    </markables>
    <annotation>
      <!-- involvement attribute is defined as free but should here be an IDREF -->
      <entity xml:id="x1" target="m2" domain="x2" involvement="#n1"
          definiteness="indet"/>
      <sourceDomain xml:id="x2" target="m3" pred="ship" individuation="count"/>
      <numericalPred xml:id="n1" target="m1" numRel="greater" num="400"/>
      <event xml:id="e1" target="m4" pred="wait"/>
      <participation event="e1" participant="x1" semRole="agent" distr="individual"
          evScope="narrow"/>
      <event xml:id="e2" target="m5" pred="pass_through"/>
      <participation event="e1" participant="e2" semRole="goal" distr="individual"
          evScope="narrow"/>
      <entity xml:id="x3" target="m7" domain="x4" involvement="single"
          definiteness="det"/>
      <sourceDomain xml:id="x4" target="m1" individuation="count" pred="Suez_Canal"/>
      <participation event="e2" participant="x3" semRole="destination/trajectory"
          distr="single" evScope="free"/>
      <scoping arg1="x1" arg2="x3" scopeRel="unscoped"/>
    </annotation>
  </sentence>
</sentences>
```

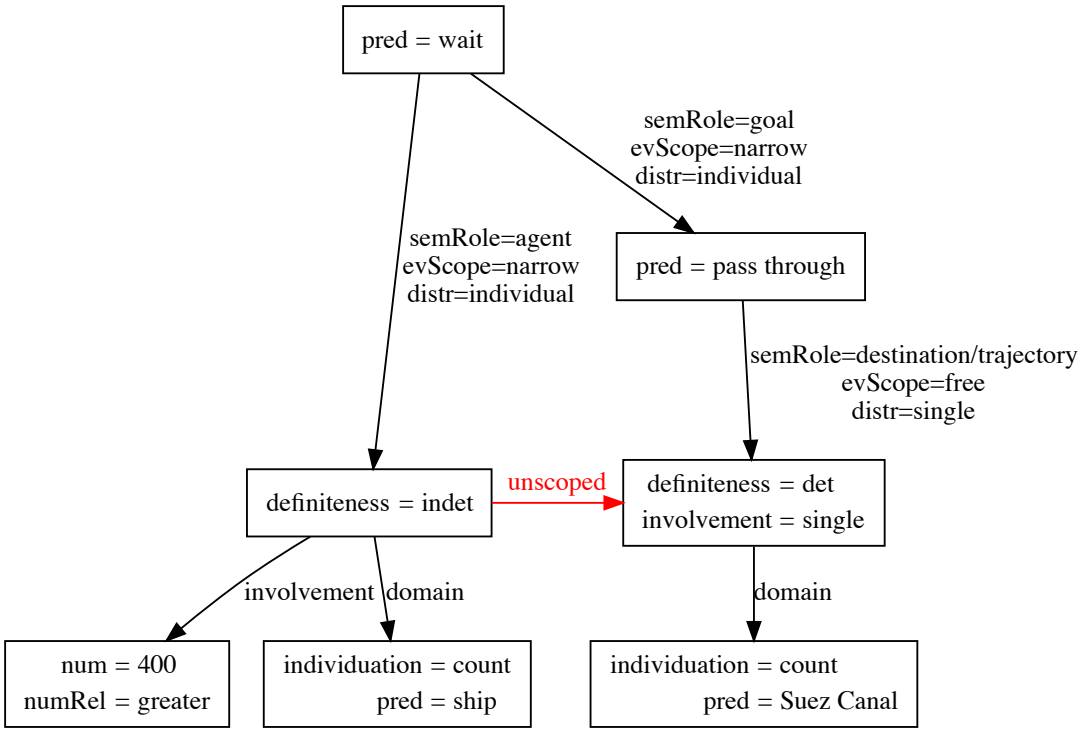

Figure 9: Graphical representation of sentence 31

2 Guidelines Sentences

The annatations given here were corrected when the guidelines contains obvious annotation errors.

Annotation of sentence A1: *Santa gave the children a present*

```
<sentences>
  <sentence xml:id="TiCC_A1">
    <quote>Santa gave the children a present</quote>
    <markables>
      <markable id="m1">Santa</markable>
      <markable id="m2">gave</markable>
      <markable id="m3">the children</markable>
      <markable id="m4">children</markable>
      <markable id="m5">a present</markable>
      <markable id="m6">present</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="single"
          definiteness="det"/>
      <sourceDomain xml:id="x2" target="m1" individuation="count" pred="santa"/>
      <event xml:id="e1" target="m2" pred="give"/>
      <entity xml:id="x3" target="m3" domain="x4" involvement="all"
          definiteness="det"/>
      <sourceDomain xml:id="x4" target="m4" individuation="count" pred="child"/>
      <entity xml:id="x5" target="m5" domain="x6" involvement="a"
          definiteness="indet"/>
      <sourceDomain xml:id="x6" target="m6" individuation="count" pred="present"/>
      <participation event="e1" participant="x1" semRole="agent" distr="single"
          evScope="free"/>
      <participation event="e1" participant="x3" semRole="beneficiary"
          distr="individual" evScope="narrow"/>
      <participation event="e1" participant="x5" semRole="theme" distr="individual"
          evScope="narrow"/>
      <scoping arg1="x3" arg2="x1" scopeRel="unscoped"/>
      <scoping arg1="x3" arg2="x5" scopeRel="wider"/>
    </annotation>
  </sentence>
</sentences>
```

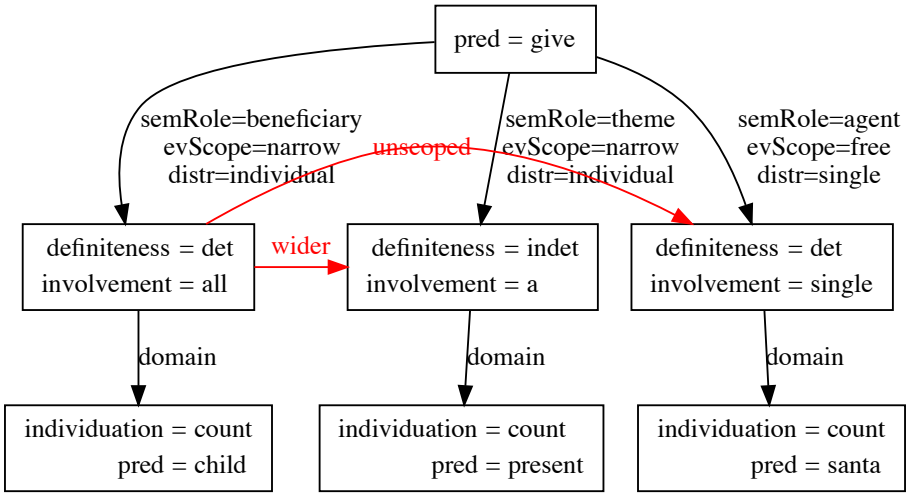

Figure 10: Graphical representation of sentence A1

Annotation of sentence A2: *Fifteen students read three papers*

```
<sentences>
  <sentence xml:id="TiCC_A2">
    <quote>Fifteen students read three papers</quote>
    <markables>
      <markable id="m1">Fifteen students</markable>
      <markable id="m2">students</markable>
      <markable id="m3">read</markable>
      <markable id="m4">three papers</markable>
      <markable id="m5">papers</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="15"
          definiteness="indet"/>
      <sourceDomain xml:id="x2" target="m2" individuation="count" pred="student"/>
          <!— FIX: individuation missing —>
      <event xml:id="e1" target="m3" pred="read"/>
      <entity xml:id="x3" target="m4" domain="x4" involvement="3"
          definiteness="indet"/>
      <sourceDomain xml:id="x4" target="m5" individuation="count" pred="paper"/> <!—
          FIX: individuation missing —>
      <participation event="e1" participant="x1" semRole="agent" distr="individual"
          evScope="narrow"/>
      <participation event="e1" participant="x3" semRole="theme" distr="individual"
          evScope="narrow"/>
      <scoping arg1="x1" arg2="x3" scopeRel="wider"/>
    </annotation>
  </sentence>
</sentences>
```

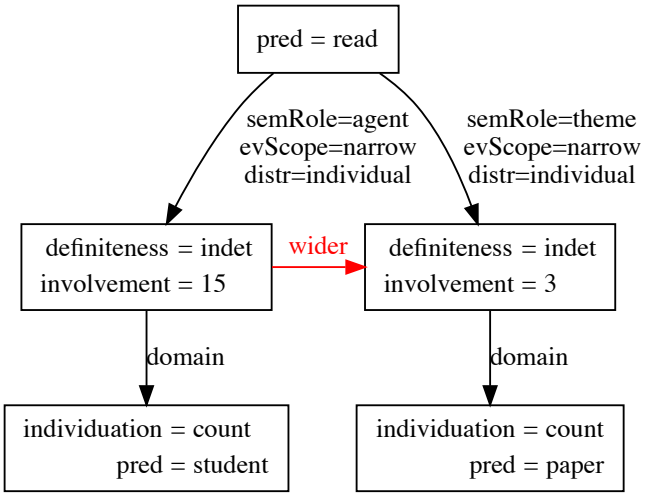

Figure 11: Graphical representation of sentence A2

Annotation of sentence A3: *All the students read some of the papers twice*

```
<sentences>
  <sentence xml:id="TiCC_A3">
    <quote>All the students read some of the papers twice</quote>
    <markables>
      <markable id="m1">All the students</markable>
      <markable id="m2">students</markable>
      <markable id="m3">read</markable>
      <markable id="m4">some of the papers</markable>
      <markable id="m5">papers</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="all"
          definiteness="det"/>
      <sourceDomain xml:id="x2" target="m2" individuation="count" pred="student"/>
          <!— FIX: individuation missing —>
      <event xml:id="e1" target="m3" pred="read"/>
      <entity xml:id="x3" target="m4" domain="x4" involvement="some"
          definiteness="det"/>
      <sourceDomain xml:id="x4" target="m5" individuation="count" pred="paper"/> <!—
          FIX: individuation missing —>
      <participation event="e1" participant="x1" semRole="agent" distr="individual"
          evScope="narrow" repetition="2"/>
      <participation event="e1" participant="x3" semRole="theme" distr="individual"
          evScope="narrow"/>
      <scoping arg1="x1" arg2="x3" scopeRel="wider"/>
    </annotation>
  </sentence>
</sentences>
```

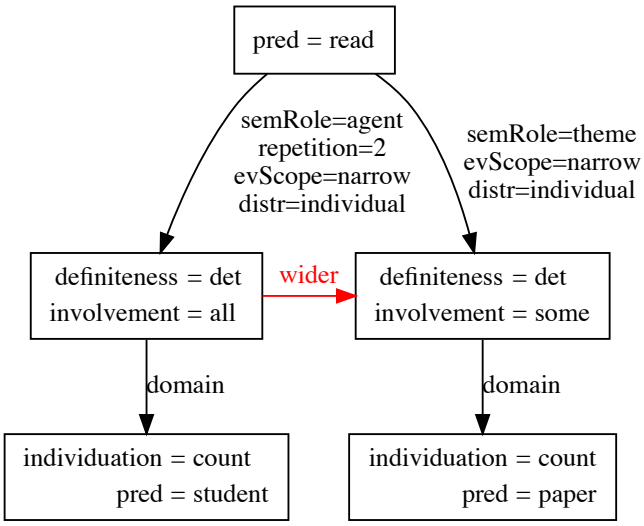

Figure 12: Graphical representation of sentence A3

Annotation of sentence A4: *Thirty-two Chinese students enrolled*

```
<sentences>
  <sentence xml:id="TiCC_A4">
    <quote>Thirty-two Chinese students enrolled</quote>
    <markables>
      <markable id="m1">Thirty-two Chinese students</markable>
      <markable id="m2">Chinese</markable>
      <markable id="m3">Chinese students</markable>
      <markable id="m4">students</markable>
      <markable id="m5">enrolled</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="32"
          definiteness="indet"/>
      <event xml:id="e1" target="m5" pred="enroll"/>
      <qDomain xml:id="x2" target="m3" source="x3" restrictions="r1"/>
      <sourceDomain xml:id="x3" target="m4" individuation="count" pred="student"/>
      <adjMod xml:id="r1" target="m2" distr="individual" pred="chinese"/>
      <participation event="e1" participant="x1" semRole="agent" distr="individual"
          evScope="narrow"/>
    </annotation>
  </sentence>
</sentences>
```

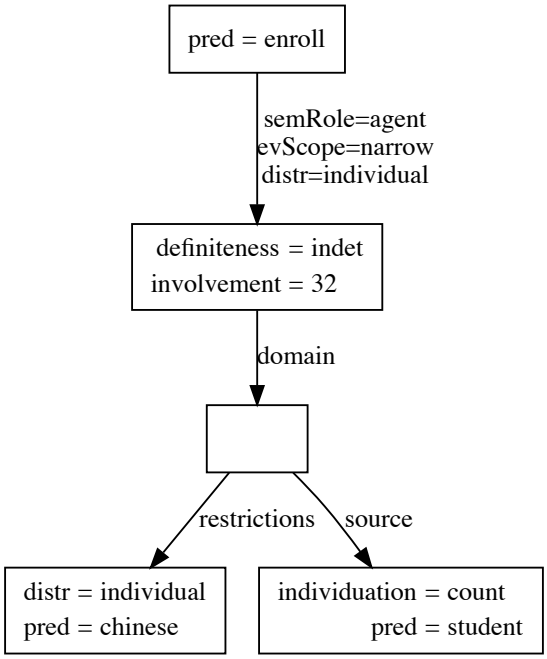

Figure 13: Graphical representation of sentence A4

Annotation of sentence A5: *Alex owns some (valuable (ancient (Chinese books) and Japanese paintings))*

```
<sentences>
  <sentence xml:id="TiCC_A5">
    <quote>Alex owns some (valuable (ancient (Chinese books) and Japanese
        paintings))</quote>
    <markables>
      <markable id="m1">Alex</markable>
      <markable id="m2">owns</markable>
      <markable id="m3">some valuable ancient Chinese books and Japanese
          paintings</markable>
      <markable id="m4">valuable</markable>
      <markable id="m5">valuable ancient Chinese books and paintings</markable>
      <markable id="m6">ancient</markable>
      <markable id="m7">ancient Chinese books</markable>
      <markable id="m8">Chinese</markable>
      <markable id="m9">books</markable>
      <markable id="m10">Japanese</markable>
      <markable id="m11">paintings</markable>
    </markables>
    <annotation>
      <!-- FIX: x1bis -->
      <entity xml:id="x1" target="m1" domain="x1bis" involvement="1"
          definiteness="det"/>
      <sourceDomain xml:id="x1bis" target="m1" individuation="count" pred="alex"/>
      <event xml:id="e1" target="m2" pred="own"/>
      <entity xml:id="x2" target="m3" domain="x3" involvement="some"
          definiteness="indet"/>
      <qDomain xml:id="x3" target="m5" source="x4 x6" restrictions="r1"/>
      <qDomain xml:id="x4" target="m8" source="x5" restrictions="r2 r3"/>
      <sourceDomain xml:id="x5" target="m9" individuation="count" pred="book"/>
      <qDomain xml:id="x6" target="m11" source="x7" restrictions="r4"/>
      <sourceDomain xml:id="x7" target="m11" individuation="count" pred="painting"/>
      <adjMod xml:id="r1" target="m4" distr="individual" pred="valuable"/>
      <adjMod xml:id="r2" target="m6" distr="individual" pred="ancient"/>
      <adjMod xml:id="r3" target="m7" distr="individual" pred="chinese"/>
      <adjMod xml:id="r4" target="m10" distr="individual" pred="japanese"/>
      <participation event="e1" participant="x1" semRole="agent" distr="single"
          evScope="free"/>
      <participation event="e1" participant="x2" semRole="theme" distr="individual"
          evScope="narrow"/>
    </annotation>
  </sentence>
</sentences>
```

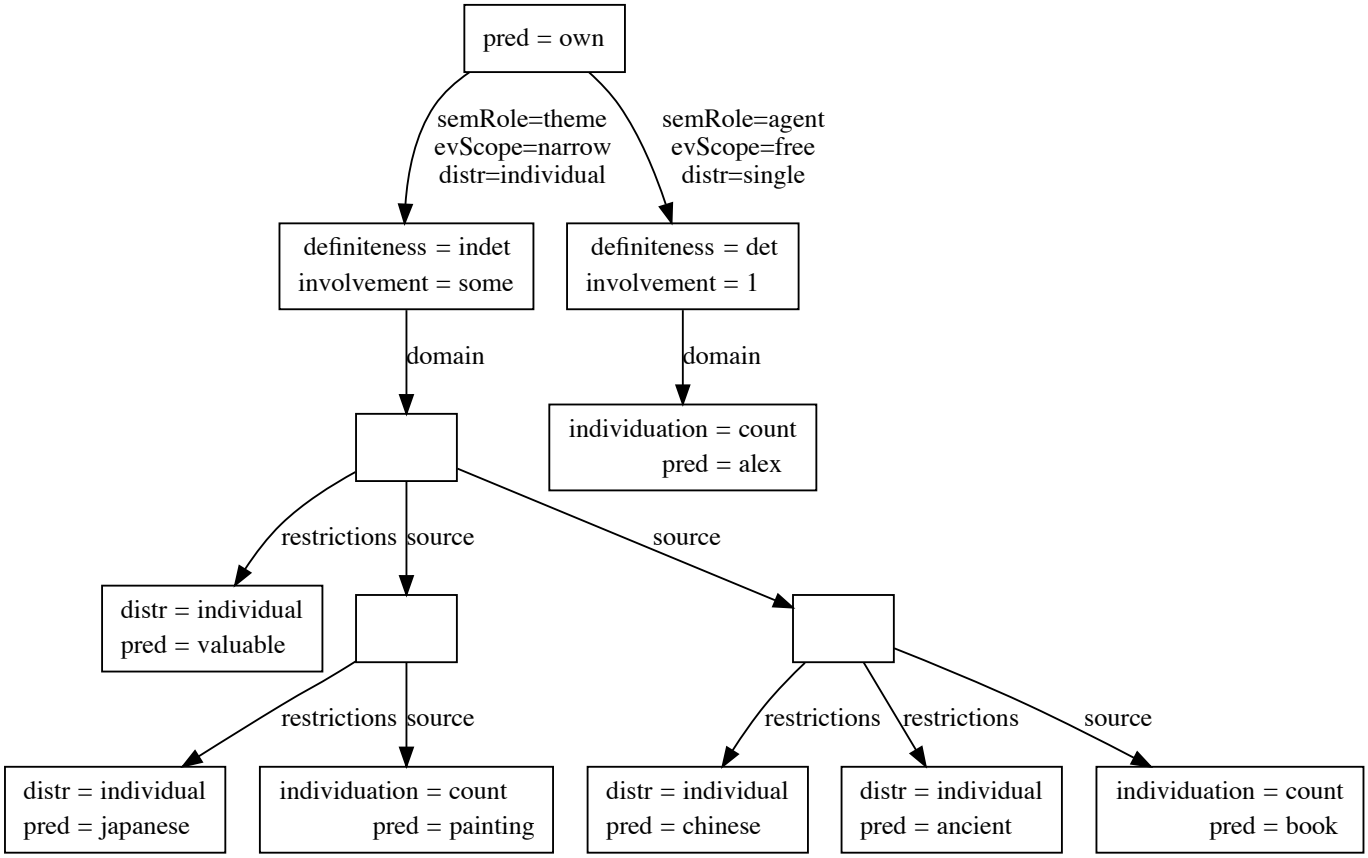

Figure 14: Graphical representation of sentence A5

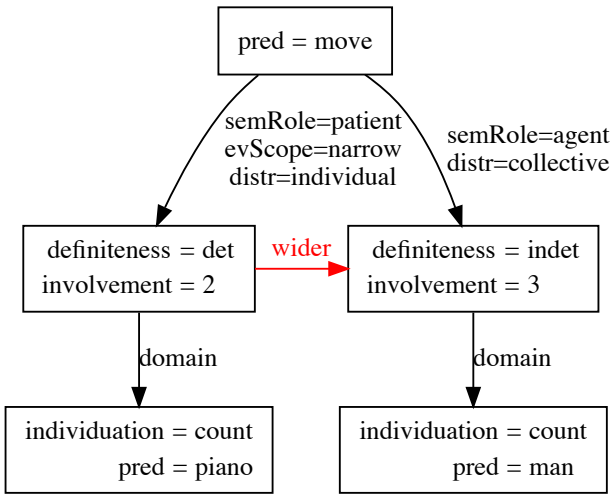

Figure 15: Graphical representation of sentence A6

Annotation of sentence A6: *Three men moved both pianos*

```
<sentences>
  <sentence xml:id="TiCC_A6">
    <quote>Three men moved both pianos</quote>
    <markables>
      <markable id="m1">Three men</markable>
      <markable id="m2">men</markable>
      <markable id="m3">moved</markable>
      <markable id="m4">both pianos</markable>
      <markable id="m5">pianos</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="3"
          definiteness="indet"/>
      <sourceDomain xml:id="x2" target="m2" pred="man" individuation="count"/>
      <event xml:id="e1" target="m3" pred="move"/>
      <entity xml:id="x3" target="m4" domain="x4" involvement="2" definiteness="det"/>
          <!-- Fix: domain="x2" ==> domain="x4" -->
      <sourceDomain xml:id="x4" target="m5" pred="piano" individuation="count"/>
      <participation event="e1" participant="x1" semRole="agent" distr="collective"/>
      <participation event="e1" participant="x3" semRole="patient" distr="individual"
          evScope="narrow"/>
      <scoping arg1="x3" arg2="x1" scopeRel="wider"/> <!-- Fix: arg1="x2" ==>
          arg1="x4" -->
    </annotation>
  </sentence>
</sentences>
```

Annotation of sentence A7: *Alex sold the two ancient books*

```
<sentences>
  <sentence xml:id="TiCC_A7">
    <quote>Alex sold the two ancient books</quote>
    <markables>
      <markable id="m1">Alex</markable>
      <markable id="m2">sold</markable>
      <markable id="m3">the two ancient books</markable>
      <markable id="m4">ancient books</markable>
      <markable id="m5">ancient</markable>
      <markable id="m6">books</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="single"
          definiteness="det"/>
      <sourceDomain xml:id="x2" target="m1" individuation="count" pred="alex"/> <!--
          FIX: individuation missing -->
      <event xml:id="e1" target="m2" pred="sell"/>
      <participation event="e1" participant="x1" semRole="agent" distr="single"
          evScope="free"/>
      <participation event="e1" participant="x3" semRole="theme" distr="individual"
          evScope="narrow"/>
      <entity xml:id="x3" target="m3" domain="x4" involvement="all" definiteness="det"
          size="2"/>
      <qDomain xml:id="x4" target="m4" source="x5" restrictions="r1"/>
      <sourceDomain xml:id="x5" target="m6" individuation="count" pred="book"/>
      <adjMod xml:id="r1" target="m5" distr="individual" pred="ancient"/>
      <scoping arg1="x3" arg2="x1" scopeRel="wider"/>
    </annotation>
  </sentence>
</sentences>
```

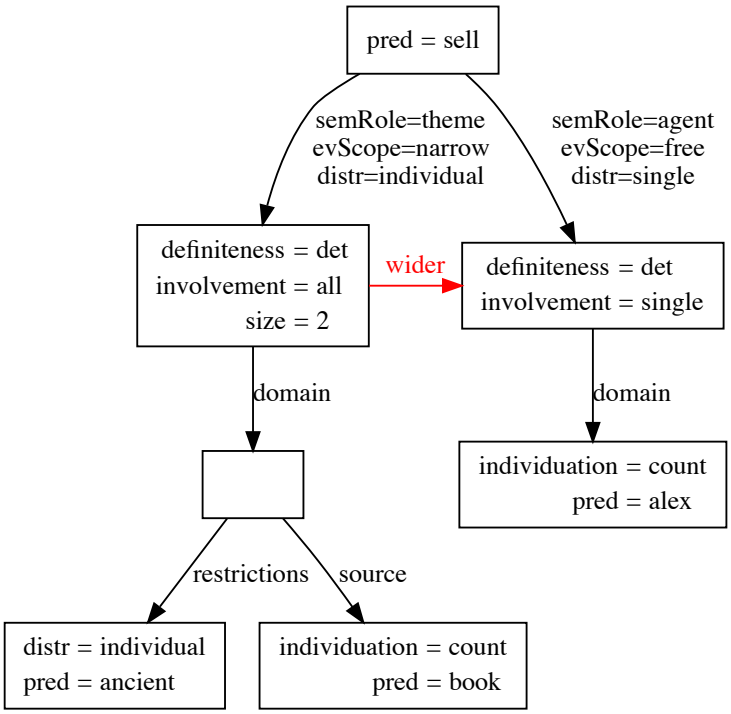

Figure 16: Graphical representation of sentence A7

Annotation of sentence A8: *All the water in these lakes is polluted*

```
<sentences>
  <sentence xml:id="TiCC_A8">
    <quote>All the water in these lakes is polluted</quote>
    <markables>
      <markable id="m1">all the water in these lakes</markable>
      <markable id="m2">water in these lakes</markable>
      <markable id="m3">water</markable>
      <markable id="m4">in these lakes</markable>
      <markable id="m5">these lakes</markable>
      <markable id="m6">is polluted</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="all"
          definiteness="det"/>
      <qDomain xml:id="x2" target="m2" source="x3" restrictions="r1"/> <!— FIX:
          domain ⟹ source —>
      <sourceDomain xml:id="x3" target="m3" pred="water" individuation="mass"/>
      <ppMod xml:id="r1" target="m4" pRel="in" pEntity="x4" distr="parts"
          linking="inverse"/> <!— Fix: distr="homogeneous" ⟹ distr="parts". —>
      <entity xml:id="x4" target="m5" domain="x5" involvement="all"
          definiteness="det"/> <!— TODO: wrong target —>
      <sourceDomain xml:id="x5" target="m6" pred="lake" individuation="count"/>
      <event xml:id="e1" target="m5" pred="polluted"/> <!— FIX: target="m7" ⟹
          target="m5" —>
      <participation event="e1" participant="x1" semRole="theme" distr="parts"
          evScope="narrow"/> <!— Fix: distr="all" ⟹ distr="parts" —>
    </annotation>
  </sentence>
</sentences>
```

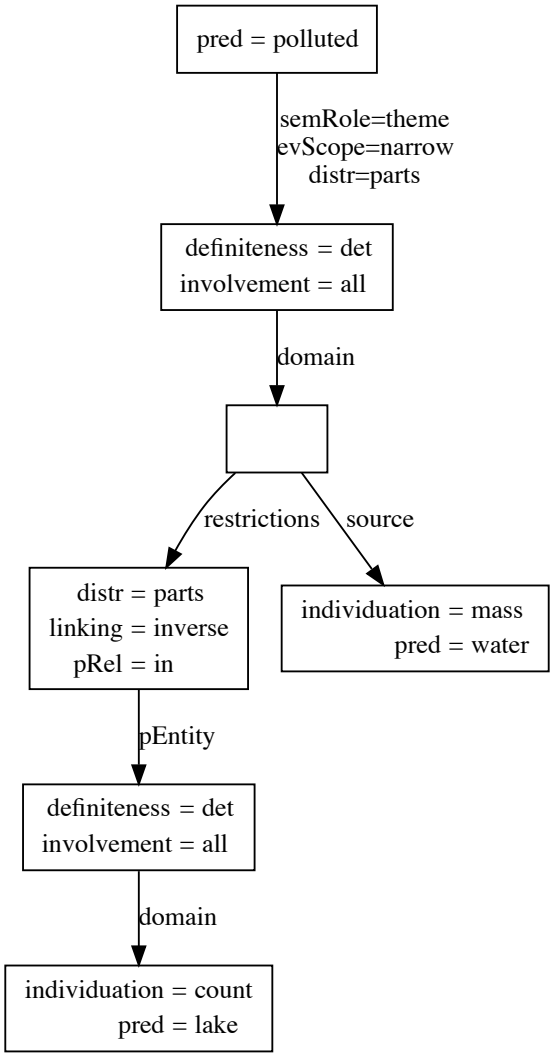

Figure 17: Graphical representation of sentence A8

Annotation of sentence A9: *The boys drank all the beer*

```
<sentences>
  <sentence xml:id="TiCC_A9">
    <quote>The boys drank all the beer</quote>
    <markables>
      <markable id="m1">the boys</markable>
      <markable id="m2">boys</markable>
      <markable id="m3">drank</markable>
      <markable id="m4">all the beer</markable>
      <markable id="m5">the beer</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="all"
          definiteness="det" />
      <sourceDomain xml:id="x2" target="m2" pred="boy" individuation="count" />
      <event xml:id="e1" target="m3" pred="drink" />
      <entity xml:id="x3" target="m4" domain="x4" involvement="total"
          definiteness="det" />
      <sourceDomain xml:id="x4" target="m5" pred="beer" individuation="mass" />
      <participation event="e1" participant="x1" semRole="agent" distr="individual"
          evScope="narrow" />
      <participation event="e1" participant="x3" semRole="patient" distr="parts"
          evScope="narrow" />
      <scoping arg1="x1" arg2="x3" scopeRel="dual" />
    </annotation>
  </sentence>
</sentences>
```

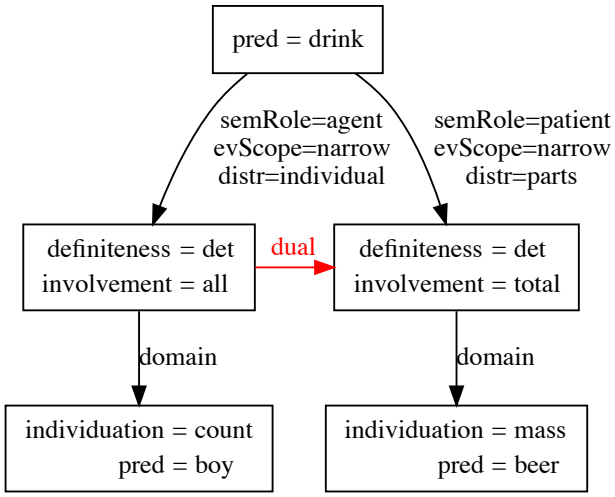

Figure 18: Graphical representation of sentence A9

Annotation of sentence A10: *The crane lifted all the sand*

```
<sentences>
  <sentence xml:id="TiCC_A10">
    <quote>The crane lifted all the sand</quote>
    <markables>
      <markable id="m1">the crane</markable>
      <markable id="m2">crane</markable>
      <markable id="m3">lifted</markable>
      <markable id="m4">all the sand</markable>
      <markable id="m5">sand</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="all" definiteness="det"
          size="1" />
      <sourceDomain xml:id="x2" target="m2" pred="crane" individuation="count" />
      <event xml:id="e1" target="m3" pred="lift" />
      <entity xml:id="x3" target="m4" domain="x4" involvement="total"
          definiteness="det" />
      <sourceDomain xml:id="x4" target="m5" pred="sand" individuation="mass" />
      <participation event="e1" participant="x1" semRole="agent" distr="single"
          evScope="free" />
      <participation event="e1" participant="x3" semRole="theme" distr="collective"
          evScope="narrow" />
      <scoping arg1="x1" arg2="x3" scopeRel="equal" />
    </annotation>
  </sentence>
</sentences>
```

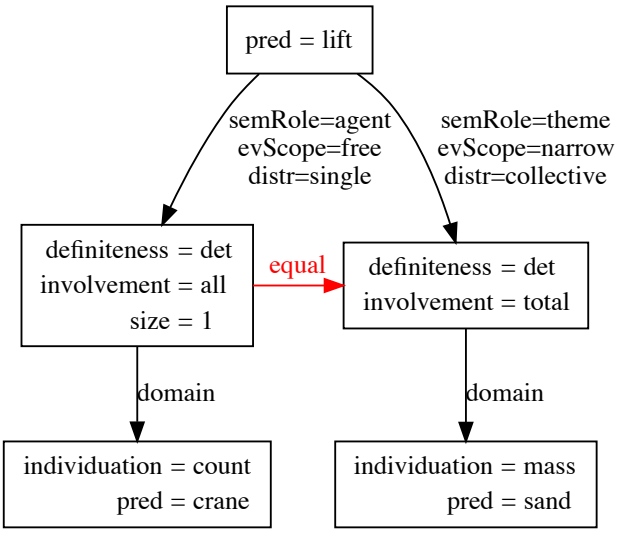

Figure 19: Graphical representation of sentence A10

Annotation of sentence A11: *Three breweries supplied fifteen inns*

```
<sentences>
  <sentence xml:id="TiCC_A11">
    <quote>Three breweries supplied fifteen inns</quote>
    <markables>
      <markable id="m1">three breweries</markable>
      <markable id="m2">breweries</markable>
      <markable id="m3">supplied</markable>
      <markable id="m4">fifteen inns</markable>
      <markable id="m5">inns</markable>
    </markables>
    <annotation>
      <entity xml:id="x1" target="m1" domain="x2" involvement="3"
          definiteness="indet"/>
      <sourceDomain xml:id="x2" target="m2" pred="brewery" individuation="count"/>
      <event xml:id="e1" target="m3" pred="supply"/>
      <entity xml:id="x3" target="m4" domain="x4" involvement="15"
          definiteness="indet"/>
      <sourceDomain xml:id="x4" target="m5" pred="inn" individuation="count"/>
      <participation event="e1" participant="x1" semRole="agent" distr="individual"
          evScope="narrow"/>
      <participation event="e1" participant="x3" semRole="beneficiary"
          distr="individual" evScope="narrow"/>
      <scoping arg1="x1" arg2="x3" scopeRel="dual"/>
    </annotation>
  </sentence>
</sentences>
```

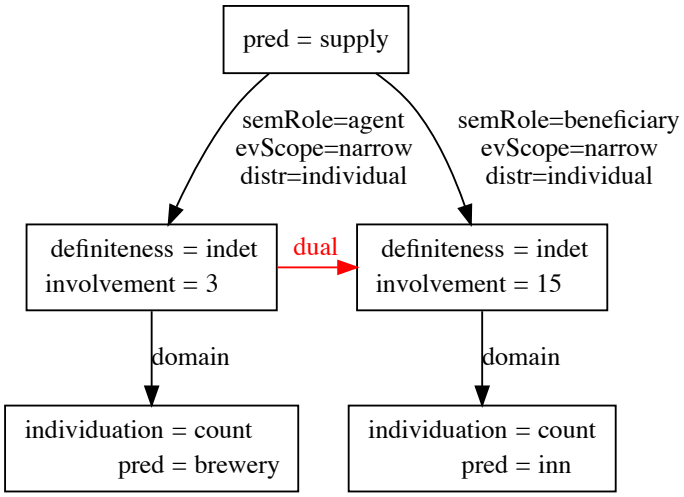

Figure 20: Graphical representation of sentence A11