<*prog*> -> <elementList >

<elementList> -> <element> + <elementList> | <element>

<element> -> <beginCourse> + <classList> + <endCourse> | <beginConstraint> + <classList> + <endConstraint>

<beginCourse> -> tOPEN + <beginCourse> | tCOURSE + <beginCourse> | tCLOSE | <courseAttrList>

<courseAttrList> -> <courseAttr> + <beginCourse> | <courseAttr>

<courseAttr > -> tCODE | tNAME | tTYPE>

<*endCourse>-> <*/course>

*<classList>->* <class>

*<class>->* <beginClass> + <meetingList> + <endClass>

*<beginClass>->* tOPEN + <beginClass> | tCLASS + <beginClass> | tCLOSE | <classAttrList>

<classAttrList>-> <classAttr> + <beginClass> | <classAttr>

<classAttr>-> tSECTION + <classAttr> | tINSTRUCTOR + <classAttr> | tCRN + <classAttr> | tCAPACITY + <classAttr> | tSTRING + <classAttr> | tNUM + <classAttr> | <beginClass>

<endclass>-> </class>

<meetingList>-> <meeting> + <meetingList> | <meeting>

<meeting>-> tOPEN + <meeting> | tSELF+ <meeting> | tMEETING + <meeting> | <meetingAttrList>

<meetingAttrList>-> tSTART | tEND\_A | tDAY | <day> | <meeting>

<day>-> tMON + <day> | tTUE + <day> |tWED + <day> |tTHU + <day> |tFRI + <day> | <meetingAttrList>

<beginConstraint>-> tCONSTRAINT + <itemList> + <endConstraint>

<itemList>-> <item> + <itemList> | <item>

<item>-> tOPEN + <itemAttr> | tITEM+ <itemAttr> | tSELF + <itemAttr> | <itemAttr>

<itemAttr>-> tCODE + <itemAttr> | tCRN + <itemAttr> | <item>

<endConstraint>-> </constraint>

<course code="CS305" name='Programming Languages' type="Lecture">

<class section="0" instructor='Husnu Yenigun' crn=20258 capacity=60>

<meeting day=R start=08:40 end=10:30/>

<meeting start=08:40 end=09:30 day=F/>

</class>

</course>

<course code="CS301R" name="Algorithms-Recitation" type="Recitation">

<class section="0" instructor='Husnu Yenigun' crn=20257>

<meeting start=17:40 day=M end=18:30/>

</class>

</course>

<constraint>

<item code="CS305"/>

<item crn=20257/>

</constraint>