

Group 11, Exercise 2

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1 Overall Structure of Our Solution

With regards to the given grammar, we have produced a parser for Minijava in cup file due to pass the test cases. For the purpose of eliminating ambiguities in the grammar, we used "precedence" left for binary expression and "precedence" right for negation and assignment. In addition, we implemented a condition in grammar related to array access to check the expression for invalid 2-dimensional type of array and to display reasonable error.

2 Overriding Not Allowed Cases in Minijava

According to the hint, we create a new MJElement.DefaultVisitor() to Override the visitor pattern for cases which are invalid statement in minijava. For instance, We wrote a condition to check if a left-hand side of a expression assignment is something apart from a Methodcall or an Object then display a Syntax Error message.

To figure out for further invalid statement we looked throw the internet.