TOC Assignment 2

Team Members:

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Grammar

```
cprogram> -> <declaration>";"<statement list> | <statement list> | <declaration>";"
<statement_list> -> <statement>";"<statement_list> | <statement>";"
<statement> -> <read> | <write> | <assignment> | <for loop>
<declaration> -> "int" <variable list>
<read> -> "read" <variable>
<write> -> "write" <variable> | "write" <integer_constant>
<assignment> -> <variable>"="<expression>
<for loop> ->"for""("<assignment>";"<expression>";"<assignment>")""{"<statement list>"}"
<expression> -> <expression> coperator exp low> <expression low> | <expression low>
<expression low> -> <expression low> <operator exp mid> <expression mid> |
<expression mid>
<expression mid>-><expression mid><operator exp top><expression top> |
<expression_top>
<expression_top> -> "("<expression>")" | <integer_constant> | <variable>
<operator exp low> -> ">"|"=="
<operator exp mid> -> "+"|"-"
<operator exp top> -> "*"|"/"
<variable> -> "{a - z}+ - {for,int,read,write}"
<integer constant> -> "{0 - 9}+"
<variable list> -> <variable> | <variable>","<variable list>
```