## C++ Visualizer: C++ Interpreter BNF Grammar

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This document defines the full specification for the BNF grammar used by the interpreter.

## 1 C++ Interpreter BNF Grammar

```
\rightarrow ID = expression;
 statement
              | declaration ID = expression;
              | COUT INSERT expression ;
              | declaration ID;
declaration
             \rightarrow \quad \mathbf{INT}
              DOUBLE
              | FLOAT
              | CHAR
              BOOL
expression
             \rightarrow - expression
              ( expression )
              | NUM
                CHARACTER
                ID
```