```
ВХОД
double FormulaAST::Execute(FunctionPtr
& func) const{
    return root_expr_-
>Evaluate(cell_fun);}
```

```
class FormulaAST
private:

std::unique_ptr<ASTImpl::Expr>
root_expr_;
```

```
Class Formula
private:
FormulaAST m_ASTtree;
std::deque<Position> m_refCells;
```

```
TextClass Formula
private:
FormulaAST m_ASTtree;
std::deque<Position> m_refCells;
```

```
explicit Formula(std::string
expression)
constructor initializes private
members.
```

```
return
m_ASTtree.Execute(Position):
```

Binary

Unary

Expression

Number

sheet.GetCell;

```
return
variant::double
```

```
return
Variant::string
```

```
return
FormulaError
```

ВЫХОД