

15. Дърбовидна структура от обекти от полн. пер.
Пример с логически изрази.

Expr

```
virtual Expr* clone() const = 0;
virtual bool eval(const Bit) const = 0;
virtual void extractVars(Bit) const = 0;
virtual ~Expr();
def(), k.k, 011 = delete;
```



Variable

```
char* ch;
Variable(char*);
bool eval(const Bit) const over;
void extractVars(Bit) const over;
```



Binary Operation

```
Expr* l, r;
Binary Operation(Expr*, Expr*)
void extractVars(Bit) const over;
~Binary Operation();
```



Implication

Disjunction

Conjunction



Negate

```
Negate(Expr*);
bool eval(const Bit) const over;
Expr* clone() const over
```

Expr Interpretation

```
Expr* - root;
// Big 6
Expr Interpretation(const char*)
bool isTautology() const;
bool isContradiction() const
private:
Expr* extractFromStr(const char*)
bool combinator(bool) const
```



ExprFactory

```
static Expr* create(string view);
```

Boolean Interpretation (Bi)

```
bool - grammar [26] & false;
bool getCharAt(char) const;
void setCharAt(bool, char);
void modify(int);
size_t count() const;
```