Object Definition Language

Short introduction



Types



Collection types

```
set <Person>
octet [3][3];
char [256]
```



Tuple types

```
struct Date {
   octet day;
   octet month;
   unsigned short year;
};

struct Student {
   string name;
   string surname;
   short grades [10];
}
```



Enumerative types

```
enum Colours {
   Red, Green, Blue, Yellow, Black, White, Green, Purple, NonDescriptive
};
enum WorkingDays {
   Monday, Tuesday, Wednesday, Thursday, Friday
}
```



Type definition

```
<type_definition> ::= typedef <type> <name>
```

Examples

```
typedef char[256] Stack
```

typedef unsigned short SimpleNumber



Classes

Attributes

```
<attribute> ::= attribute <type> <name>
```



Associations

```
<association> ::= relationship <type> <name>
                              [inverse <class name> :: <association name>]
       <class name> ::= <name>
       <association name> ::= <name>
Examples
        interface Person {
           relationship Flat lives_in inverse Flat::resident;
       };
        interface Flat {
           relationship Person resident inverse Person::lives in;
       };
        interface person {
           relationship Set<Person> parents
                                    inverse Person::children;
           relationship List<Person> children
                                    inverse Person::parents;
        };
```



Methods

```
<method> ::= <type> <method_name> ( <argument> {, <argument>} )
<method_name> ::= <name>
<argument> ::= <argument_qualifier> <type> <name>
<argument_qualifier> ::= in | out | inout
```

```
interface Person {
   attribute String name;
   attribute String surname;
   attribute Person spouse;

  void mariage ( in Person whomToMarry );
}
```

