```
contract := decl^+
           decl ::= event\_decl \mid protocol\_decl \mid variable\_decl \mid propertv\_decl \mid rule\_decl
   event\_decl ::= event event\_name (, event\_name)^*;
protocol\_decl ::= protocol \ protocol \ ;
     protocol ::= any | event_name | protocol; protocol
                    protocol + protocol + protocol * | protocol ?
variable\_decl ::= \mathbf{variable} \ \left( \ var\_name \ (\ , \ var\_name)^* \ (\ : \ type \ )^? \ \ ; \ \right)^+
          type ::= bool \mid max (number)
property\_decl ::= \mathbf{property} \ (ldl\_formula ;)^+
     rule\_decl ::= \mathbf{rule} (rule;)^+
          rule := \left( \mathbf{except}^? \mathbf{on} \ event\_name \ (, \ event\_name)^* \ \left( \left\{ \ code \ \right\} \right)^? \right)^!
                      (when condition (\{ code \})^?)
                     action (\{ code \})^?
    condition ::= proposition \mid < ldl_path > condition
        action ::= ensure proposition
                     raise event_name
                     preserve (var_name (, var_name)*)
                     \mathbf{do} ( action (, action)<sup>+</sup> )
```