```
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 *
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 (+ event_name)*
                    preserve (var_name (, var_name)*)
                    do (action (, action)^+)
```