$$
\begin{aligned}
contract &::= decl^{+} \\
decl &::= event\_decl \mid protocol\_decl \mid variable\_decl \mid property\_decl \mid rule\_decl \\
event\_decl &::= \textbf{event}\ event\_name\ (\textbf{,}\ event\_name)^{*}\ \textbf{;} \\
event\_name &::= \textbf{any} \mid name \\
protocol\_decl &::= \textbf{protocol}\ protocol\ \textbf{;;} \\
protocol &::= event\_name \mid protocol\ \textbf{;}\ protocol \\
&\quad \mid protocol\ \textbf{+}\ protocol \mid protocol\ \textbf{*} \mid protocol\ \textbf{?} \\
variable\_decl &::= \textbf{variable}\ \Big(\ var\_name\ (\textbf{,}\ var\_name)^{*}\ (\ \textbf{:}\ type\ )^{?}\ \textbf{;}\ \Big)^{+} \\
var\_name &::= name \\
type &::= \textbf{bool} \mid \textbf{max}\ (\ number\ ) \\
property\_decl &::= \textbf{property}\ (ldl\_formula\ \textbf{;})^{+} \\
rule\_decl &::= \textbf{rule}\ (rule\ \textbf{;})^{+} \\
rule &::= \textbf{except}^{?}\ \textbf{on}\ event\_name\ (\textbf{,}\ event\_name)^{*}\ (\textbf{\{}\ code\ \textbf{\}})^{?} \\
&\qquad \Big(\ \textbf{when}\ condition\ (\textbf{\{}\ code\ \textbf{\}})^{?}\ \Big)^{?} \\
&\qquad action\ (\textbf{\{}\ code\ \textbf{\}})^{?} \\
condition &::= proposition \mid \textbf{<}\ ldl\_path\ \textbf{>}\ condition \\
action &::= \textbf{ensure}\ proposition \\
&\quad \mid \textbf{raise}\ event\_name \\
&\quad \mid \textbf{preserve}\ (var\_name\ (\textbf{,}\ var\_name)^{*}) \\
&\quad \mid \textbf{do}\ (\ action\ (\textbf{,}\ action)^{+}\ )
\end{aligned}
$$