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