

A quine program written in K-framework

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Usage: `kompile` and then run with `krun -output none`

MODULE QUINE-EXPLICIT

CONFIGURATION:

k

□ □ □ □

out

```
.List
```

prefix

```
// Copyright (c) 2013-2014 K Team. All Rights Reserved." ~ "/"!*" ~ "\\title{A quine program written in K-framework}" ~ "\\author{Radu Mereu\\c{t}\\u{a}}}" ~ "(\\texttt{radu.mereuta@info.uaic.ro}))" ~ "\\organization{Un
```

suffix

[illegible]

SYNTAX $K ::= \text{escape } (String) [\text{function}(\text{function}()), \text{klabel}(\text{klabel}('escape'))]$

RULE	$\text{escape } (S:String)$
	$\text{replaceAll (replaceAll (replaceAll } (S, "\\\"", "\"\\\"\"), \"\\n\", \"\\n\"), \"\\\"\", \"\\\"\")}$

$$\text{RULE } \frac{S1}{S1 + \text{String } P + \text{String } "\backslash n"} \quad \curvearrowright \quad \frac{S2}{S2 + \text{String } "\" + \text{String } \text{escape } (P) + \text{String } "\" \sim > \backslash n"}$$

prefix

P. String

Diagram illustrating the LR(0) items and transitions for the grammar:

- Item **k**: $S1 \rightarrow S2$ with transition on `"""` to item `"""`.
- Item **prefix**: \bullet_K with transition on `0` to item `0`.
- Item **out**: $.List$ with transition on `ListItem (S1 + String S2 + String " .K\n </prefix>\n <suffix>\n"` to item `0`.

RULE

$\frac{S1}{S1 + \text{String } P + \text{String } "\\n"}$ \curvearrowright $\frac{S2}{S2 + \text{String } "\\\" + \text{String } \text{escape}(P) + \text{String } "\\\" \sim > \\n"}$

suffix: $\frac{P:\text{String}}{\bullet_K}$

prefix: 0

suffix

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0

RULE

$$\frac{S1 \rightsquigarrow S2}{\bullet_K}$$

$$\frac{\bullet_K}{0}$$

$$\frac{\text{.List}}{\text{ListItem}(S2 + \text{String } "K \backslash n \text{ </suffix> } \backslash n" + \text{String } S1)}$$

END MODULE