Syntax of Tasskaf

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Table 1: Syntax of TassKaf

<table>
<tr><td>TassKaf-file</td><td>→</td><td>class$^+$</td></tr>
<tr><td>class</td><td>→</td><td>class UppercaseIdentifier extends classname {(vardec|methdec)*}</td></tr>
<tr><td>classname</td><td>→</td><td>(Identifier .)* UppercaseIdentifier</td></tr>
<tr><td>varname</td><td>→</td><td>LowercaseIdentifier</td></tr>
<tr><td>methame</td><td>→</td><td>LowercaseIdentifier</td></tr>
<tr><td>vardec</td><td>→</td><td>(static) lvardec</td></tr>
<tr><td>lvardec</td><td>→</td><td>varspec = expression ;</td></tr>
<tr><td>varspec</td><td>→</td><td>type varname ([])*</td></tr>
<tr><td>methdec</td><td>→</td><td>(static) (type | void) methname ((varspec(, varspec)*))
{ (lvardec)* statements }</td></tr>
<tr><td>type</td><td>→</td><td>classname | int</td></tr>
<tr><td>expression</td><td>→</td><td>expression op expression
| - expression
| ! expression
| (expression)
| (callee) varname ([expression])*
| constant
| methcall
| new
| this
| null</td></tr>
<tr><td>constant</td><td>→</td><td>(0|1| . . . |9)$^+$</td></tr>
<tr><td>callee</td><td>→</td><td>(classname | expression) .</td></tr>
<tr><td>methcall</td><td>→</td><td>(callee) methname ((expression (, expression)*))</td></tr>
<tr><td>new</td><td>→</td><td>new classname()
| new type ([expression])$^+$ ([])*</td></tr>
<tr><td>statements</td><td>→</td><td>statement*</td></tr>
<tr><td>statement</td><td>→</td><td>statement1 ; | statement2</td></tr>
<tr><td>statement1</td><td>→</td><td>(callee) varname ([expression])* = expression
| do { statements } while (expression)
| break
| methcall
| return (expression)</td></tr>
<tr><td>statement2</td><td>→</td><td>if (expression) { statements }
| if (expression) { statements } else { statements }
| while (expression) { statements }
| for ((statement1|statement2) ; expression ; (statement1|statement2))
{ statements }
| switch (expression)
{ (case constant : statements)$^+$ (default : statements) }</td></tr>
<tr><td>op</td><td>→</td><td>+ | - | * | / | % | && | || | == | != | ≤ | <= | ≥ | >=</td></tr>
</table>