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⟨program⟩ → [⟨metas⟩] ⟨object⟩ EOF
⟨metas⟩ → ⟨meta⟩ { EOF ⟨meta⟩ } EOP
⟨comment⟩ → ⟨commentary⟩ EOL
⟨commentoptional⟩ → { ⟨comment⟩ }
⟨object⟩ → ((⟨commentoptional⟩ ⟨masterbody⟩)
| ⟨bound⟩
⟨bound⟩ → ⟨commentoptional⟩ ((⟨application⟩ | ((⟨method⟩ | ⟨just⟩) (⟨onameortname⟩ | ⟨aphi⟩) EOL))
⟨tbound⟩ → ⟨commentoptional⟩ (⟨tapplication⟩ | (((⟨method⟩ | ⟨just⟩) ⟨tname⟩ EOL))
⟨tsubmaster⟩ → ⟨commentoptional⟩ ⟨tmasterbody⟩
⟨submaster⟩ → ⟨commentoptional⟩ ⟨masterbody⟩
⟨masterbody⟩ → ⟨formation⟩ | ⟨atom⟩ | ((⟨hanonym⟩ ⟨onameortname⟩ EOL)
⟨tmasterbody⟩ → ⟨tformation⟩ | ⟨atom⟩ | ((⟨hanonym⟩ ⟨tname⟩ EOL)
⟨just⟩ → ⟨beginner⟩ | ⟨finisher⟩
⟨atom⟩ → ⟨voids⟩ ⟨suffix⟩ "␣" "?" ⟨testsoreol⟩
⟨formation⟩ → ⟨voids⟩ ⟨onameortname⟩ ⟨innersoreol⟩
⟨tformation⟩ → ⟨voids⟩ ⟨tname⟩ ⟨innersoreol⟩
⟨testsoreol⟩ → ⟨tests⟩ | EOL
⟨innersoreol⟩ → ⟨inners⟩ | EOL
⟨inners⟩ → EOL TAB ((⟨bound⟩ | ⟨submaster⟩) {((⟨bound⟩ | ([EOL] ⟨submaster⟩) )) UNTAB
⟨tests⟩ → EOL TAB ((⟨tbound⟩ | ⟨tsubmaster⟩) {((⟨tbound⟩ | ([EOL] ⟨tsubmaster⟩) )) UNTAB
⟨voids⟩ → "[" [⟨void⟩ { "␣" ⟨void⟩ } "]" "
⟨void⟩ → ⟨name⟩ | "@"
⟨application⟩ → ((⟨happlicationextended⟩ ⟨onameortname⟩ EOL)
| ⟨vapplication⟩
⟨tapplication⟩ → ((⟨happlicationextended⟩ ⟨tname⟩ EOL)
| ⟨tvapplication⟩
⟨happlication⟩ → ((⟨happlicationhead⟩ ⟨happlicationtail⟩)
| ⟨happlicationreversed⟩
⟨happlicationreversedhead⟩ → ⟨reversed⟩ "␣" ⟨happlicationreversedfirst⟩
⟨happlicationextended⟩ → ((⟨happlicationheadextended⟩ ⟨happlicationtail⟩)
| ⟨happlicationreversed⟩
⟨onlyaphi⟩ → ⟨happlicationheadextended⟩ ⟨happlicationtail⟩ ⟨aphi⟩
⟨aphi⟩ → "␣" ">" ">" "␣" ⟨voids⟩
⟨happlicationreversed⟩ → ⟨happlicationreversedhead⟩ [⟨happlicationtail⟩]
⟨happlicationhead⟩ → ⟨hmethod⟩ | ⟨applicable⟩
⟨happlicationheadextended⟩ → ⟨vmethod⟩ | ⟨happlicationhead⟩
⟨applicable⟩ → "*" | ⟨name⟩ | "@"
⟨happlicationargunbound⟩ → "␣" ⟨happlicationarg⟩
⟨happlicationtailscoped⟩ → { ⟨happlicationargunbound⟩ } "␣" ⟨happlicationargscoped⟩
⟨happlicationtail⟩ → { ⟨happlicationargunbound⟩ ⟨as⟩ }+ | { ⟨happlicationargunbound⟩ }+
⟨happlicationreversedfirst⟩ → ⟨happlicationarg⟩
⟨happlicationarg⟩ → ⟨just⟩ | ⟨hmethod⟩ | ⟨scope⟩
⟨happlicationargscoped⟩ → ⟨voids⟩ ⟨aname⟩ ⟨innersoreol⟩
⟨vapplication⟩ → ((⟨vapplicationhead⟩ ⟨onameortname⟩ ⟨vapplicationargs⟩) | ((⟨reversed⟩ ⟨onameortname⟩ ⟨vapplicationargsreversed⟩)
⟨tvapplication⟩ → ((⟨vapplicationhead⟩ ⟨tname⟩ ⟨vapplicationargs⟩) | ((⟨reversed⟩ ⟨tname⟩ ⟨vapplicationargsreversed⟩)
⟨vapplicationhead⟩ → ⟨applicable⟩ | ⟨hmethod⟩ | ⟨vmethod⟩ | ⟨compactarray⟩
⟨compactarray⟩ → "$" | "QQ" | ⟨name⟩ { "." ⟨name⟩ } "␣" "*" [(int)]
⟨vapplicationargs⟩ → EOL TAB ⟨vapplicationargsspecific⟩ UNTAB
⟨vapplicationargsreversed⟩ → EOL TAB ⟨vapplicationargunbound⟩ [(vapplicationargsspecific)] UNTAB
⟨vapplicationargsspecific⟩ → { ⟨vapplicationargbound⟩ }+ | { ⟨vapplicationargunbound⟩ }+
⟨vapplicationargbound⟩ → ((⟨vapplicationargboundcurrent⟩ EOL)
| ⟨vapplicationargboundnext⟩
⟨vapplicationargboundcurrent⟩ → (( "⟨" ⟨happlicationextended⟩ ")" ) | ⟨just⟩ | ⟨method⟩ ⟨as⟩ [(oname)] | ((⟨commentoptional⟩ "⟨" ⟨hanonym⟩ ")" ⟨as⟩ [(fname)]))
⟨vapplicationargboundnext⟩ → ((⟨commentoptional⟩ ⟨voids⟩ ⟨as⟩ [(fname)] ⟨innersoreol⟩) | ((⟨vapplicationhead⟩ ⟨as⟩ [(oname)] ⟨vapplicationargs⟩) | ((⟨reversed⟩ ⟨as⟩ [(oname)] ⟨vapplicationargsreversed⟩)
⟨vapplicationargunbound⟩ → ((⟨onlyaphi⟩ | ((⟨vapplicationargunboundcurrent⟩ [(aphi)])) EOL)
| ⟨vapplicationargunboundnext⟩
⟨vapplicationargunboundcurrent⟩ → ((⟨happlicationextended⟩ | ⟨just⟩ | ⟨method⟩ [(oname)] | ((⟨commentoptional⟩ ⟨hanonym⟩ [(fname)]))
| ⟨vapplicationargunboundnext⟩
| ⟨formationnamed⟩ | ((⟨vapplicationhead⟩ [(oname) | ⟨aphi⟩] ⟨vapplicationargs⟩) | ((⟨reversed⟩ [(oname)] ⟨vapplicationargsreversed⟩) | ((⟨happlicationhead⟩ | ⟨happlicationreversedhead⟩ ⟨happlicationtailscoped⟩)
⟨formationnamed⟩ → ⟨commentoptional⟩ ⟨voids⟩ [(fname)] ⟨innersoreol⟩
⟨hformation⟩ → ⟨voids⟩ { ⟨hanonyminner⟩ }+
⟨hanonym⟩ → ⟨hformation⟩ | ((⟨hmethod⟩ | ⟨happlication⟩ | ⟨hformation⟩ | ⟨just⟩ { ⟨onlyphitail⟩ }+))
⟨onlyphitail⟩ → ⟨arrow⟩ ⟨voids⟩
⟨hanonyminner⟩ → "␣" "⟨" ((⟨hmethod⟩ | ⟨happlication⟩ | ⟨hanonym⟩ | ⟨just⟩) ⟨oname⟩ ")" "
⟨method⟩ → ⟨hmethod⟩ | ⟨vmethod⟩
⟨hmethod⟩ → ((⟨just⟩ | ⟨scope⟩) { ⟨methodtail⟩ }+
⟨vmethod⟩ → ((⟨vmethodheadvapplication⟩ | ((⟨just⟩ | ⟨hanonym⟩) [(oname)] EOL) | ⟨formationnamed⟩) ⟨methodtail⟩ { ⟨vmethodheadapplicationtail⟩ ⟨methodtail⟩ }
⟨vmethodheadapplicationtail⟩ → ([⟨oname⟩] ⟨vapplicationargs⟩ | EOL) | ((⟨happlicationtail⟩ [(oname)] EOL)
⟨vmethodheadvapplication⟩ → ((⟨applicable⟩ | ⟨hmethod⟩ [(oname)] ⟨vapplicationargs⟩) | ((⟨reversed⟩ [(oname)] ⟨vapplicationargsreversed⟩)
⟨methodtail⟩ → "." ⟨⟨finisher⟩ | (" " ⟨int⟩))
⟨beginner⟩ → "*" | "Q" | "QQ" | "$" | ⟨data⟩
⟨finisher⟩ → ⟨name⟩ | "@" | "^"
⟨reversed⟩ → ((⟨finisher⟩ | (" " ⟨int⟩)) "." "
⟨aname⟩ → ">" ">" ["!"]
⟨fname⟩ → ⟨oname⟩ | ("␣" ⟨aname⟩)
⟨onameortname⟩ → ⟨oname⟩ | ⟨tname⟩
⟨oname⟩ → ⟨suffix⟩ ["!"]
⟨tname⟩ → ⟨tarrow⟩ ("@" | ⟨name⟩)
⟨tarrow⟩ → "␣" "+" ">" "␣"
⟨suffix⟩ → ⟨arrow⟩ ("@" | ⟨name⟩) [" "]
⟨arrow⟩ → "␣" ">" "␣"
⟨scope⟩ → "⟨" ((⟨happlication⟩ | ⟨hanonym⟩) ")" "
⟨as⟩ → ":" ((⟨name⟩ | ⟨int⟩)
⟨data⟩ → ⟨bytes⟩ | ⟨text⟩ | ⟨string⟩ | ⟨int⟩ | ⟨float⟩ | ⟨hex⟩
⟨commentary⟩ → "#" [{ [^\\r\\n] } [^\\r\\n\\t]]
⟨meta⟩ → "+" ⟨name⟩ { "␣" { [^\\t\\r\\n] } }+
⟨indent⟩ → "␣" "␣"
⟨linebreak⟩ → ["\\r" "\\n"
⟨byte⟩ → [0-9A-F] [0-9A-F]
⟨empty_bytes⟩ → "_" " _"
⟨line_bytes⟩ → ⟨byte⟩ { "-" ⟨byte⟩ }+
⟨bytes⟩ → ⟨empty_bytes⟩ | ((⟨byte⟩ "-" ) | ((⟨line_bytes⟩ { "-" EOL ⟨line_bytes⟩ }
⟨escape_sequence⟩ → "\\{" [b\\t\\n\\f\\r" "\\{ } ] ([ [0-3] [0-7] [0-7] ] | ({ "u" }+ ⟨byte⟩ ⟨byte⟩))
⟨string⟩ → DQ { ([^"\\{ }\\r\\n] | ⟨escape_sequence⟩) } DQ
⟨int⟩ → [("+" | "-") ] ("0" | ([ "0" ] [1-9] { [0-9] })))
⟨exponent⟩ → ("e" | "E") [( "+" | "-") ] { [0-9] }+
⟨float⟩ → [("+" | "-") ] { [0-9] }+ "." { [0-9] }+ [(exponent)]
⟨hex⟩ → "0x" { [0-9a-fA-F] }+
⟨name⟩ → [a-z] { [^_,.!' : ; ! ?] []-{} \\r\\n\\t\\xF335] }
⟨text⟩ → DQ DQ DQ ["\\r" "\\n" { ([^\\{ } ] | ⟨escape_sequence⟩) } DQ DQ DQ

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