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⟨program⟩ → [⟨metas⟩] ⟨object⟩ EOF
⟨metas⟩ → ⟨meta⟩ { EOL ⟨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⟩ → "\{" { [btfnfr "\{"] | ([[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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