

$$T_0 = \{1, 3, 4, 10, 5, 83, 84\}$$

$$T_1 = \varepsilon\text{-closure}(\delta(T_0, (\text{ODE}))) \\ = \varepsilon\text{-closure}(2) = \{2\}$$

$$T_2 = \varepsilon\text{-closure}(\delta(T_0, \text{FDECL})) = \varepsilon\text{-closure}(8)$$

$$= \{8, 3, 4, 10, 5, 83, 84\} \quad (1)$$

$$T_3 = \varepsilon\text{-closure}(\delta(T_0, \text{Vtype})) = \varepsilon\text{-closure}(11, 88, 85) \\ = \{11, 88, 91, 85\}$$

$$T_4 = \varepsilon\text{-closure}(\delta(T_0, \text{VDECL})) = \varepsilon\text{-closure}(6)$$

$$= \{6, 5, 83, 84, 4, 10, 3\}$$

$$T_5 = \varepsilon\text{-closure}(\delta(T_2, (\text{C-DE}))) = \varepsilon\text{-closure}(9) \\ = \{9\}$$

$$\varepsilon\text{-closure}(\delta(T_2, \text{FDECL})) = \varepsilon\text{-closure}(8) \\ = T_2$$

$$\varepsilon\text{-closure}(\delta(T_2, \text{Vtype})) = \varepsilon\text{-closure}(11, 88, 85) \\ = T_3$$

$$\varepsilon\text{-closure}(\delta(T_2, \text{VDECL})) = \varepsilon\text{-closure}(6) \\ = \{6, 5, 83, 84, 4, 10, 3\} \\ = T_4$$

$$T_6 = \varepsilon\text{-closure}(\delta(T_3, \text{TD})) = \varepsilon\text{-closure}(12, 92, 86) \\ = \{12, 92, 86\}$$

$$T_7 = \varepsilon\text{-closure}(\delta(T_3, \text{ASSIGN})) = \varepsilon\text{-closure}(84) \\ = \{84\}$$

$$T_8 = \varepsilon\text{-closure}(\delta(T_4, (\text{ODE}))) = \varepsilon\text{-closure}(17)$$

$$= \{17\}$$

$$\varepsilon\text{-closure}(\delta(T_4, \text{VDECL})) = \varepsilon\text{-closure}(6) = T_4$$

$$\varepsilon\text{-closure}(\delta(T_4, \text{Vtype})) = \varepsilon\text{-closure}(82, 85, 11) \\ = T_3$$

$$\varepsilon\text{-closure}(\delta(T_4, \text{FDECL})) = \varepsilon\text{-closure}(8) \\ = T_2$$

$$T_9 = \varepsilon\text{-closure}(\delta(T_6, \text{paren})) = \varepsilon\text{-closure}(13) \\ = \{13, 29, 28\}$$

$$T_{10} = \varepsilon\text{-closure}(\delta(T_6, \text{ASSIGN})) = \varepsilon\text{-closure}(93) \\ = \{93, 96, 97, 101, 100, 106, 107, 111, 113, 115, 117\}$$

$$T_{11} = \varepsilon\text{-closure}(\delta(T_6, \text{semi})) = \varepsilon\text{-closure}(87) \\ = \{87\}$$

$$T_{12} = \varepsilon\text{-closure}(\delta(T_7, \text{semi})) = \varepsilon\text{-closure}(90) \\ = \{90\}$$

$$T_{13} = \varepsilon\text{-closure}(\delta(T_9, \text{ARG})) = \varepsilon\text{-closure}(14) \\ = \{14\}$$

$$T_{14} = \varepsilon\text{-closure}(\delta(T_9, \text{Vtype})) = \varepsilon\text{-closure}(30) \\ = \{30\}$$

$$T_{15} = \varepsilon\text{-closure}(\delta(T_{10}, \text{RHS})) = \varepsilon\text{-closure}(94) \\ = \{94\}$$

$$T_{16} = \varepsilon\text{-closure}(\delta(T_{10}, \text{literal})) = \varepsilon\text{-closure}(95) \\ = \{95\}$$

$$T_{17} = \varepsilon\text{-closure}(\delta(T_{10}, \text{EXPR})) = \varepsilon\text{-closure}(98) \\ = \{98\}$$

$$T_{18} = \varepsilon\text{-closure}(\delta(T_{10}, \text{TERM})) = \varepsilon\text{-closure}(102, 99) \\ = \{99, 102\}$$

$$T_{19} = E-\text{closure}(\delta(T_{10}, \text{FACTOR})) = E-\text{closure}(\{05, 100\})$$

$$= \{ \underline{105, 108} \}$$

$$T_{20} = E-\text{closure}(\delta(T_{10}, \text{fact})) = E-\text{closure}(\{112\})$$

$$= \{ \underline{112} \}$$

$$T_{21} = E-\text{closure}(\delta(T_{10}, \text{num})) = E-\text{closure}(\{114\})$$

$$= \{ \underline{114} \}$$

$$T_{22} = E-\text{closure}(\delta(T_{10}, \text{Id})) = E-\text{closure}(\{116\})$$

$$= \{ \underline{116} \}$$

$$T_{23} = E-\text{closure}(\delta(T_{10}, \text{paren})) = E-\text{closure}(\{118\})$$

$$= \{ \underline{118, 101, 100, 106, 107, 111, 113, 115, 117} \}$$

$$T_{24} = E-\text{closure}(\delta(T_{13}, \text{rparen})) = E-\text{closure}(\{15\})$$

$$= \{ \underline{15} \}$$

$$T_{25} = E-\text{closure}(\delta(T_{14}, \text{Id})) = E-\text{closure}(\{31\})$$

$$= \{ \underline{31, 33, 34} \}$$

$$T_{26} = E-\text{closure}(\delta(T_{18}, \text{addsub})) = E-\text{closure}(\{03\})$$

$$= \{ \underline{03, 01, 100, 106, 107, 111, 113, 115, 117} \}$$

$$T_{27} = E-\text{closure}(\delta(T_{19}, \text{multdiv})) = E-\text{closure}(\{04\})$$

$$= \{ \underline{04, 107, 106, 111, 113, 115, 117} \}$$

$$T_{28} = E-\text{closure}(\delta(T_{23}, \text{EXPR})) = E-\text{closure}(\{114\})$$

$$= \{ \underline{114} \}$$

~~$$T_{29} = E-\text{closure}(\delta(T_{23}, \text{TERM})) = E-\text{closure}(\{02, 99\})$$~~

~~$$= T_{18}$$~~

~~$$T_{29} = E-\text{closure}(\delta(T_{23}, \text{FACTOR})) = T_{19}$$~~

~~$$T_{29} = E-\text{closure}(\delta(T_{23}, \text{fact})) = E-\text{closure}(\{112\})$$~~

~~$$= T_{20}$$~~

$$E-\text{closure}(\delta(T_{23}, \text{num})) = E-\text{closure}(\{114\})$$

$$= T_{21}$$

$$E-\text{closure}(\delta(T_{23}, \text{Id})) = E-\text{closure}(\{116\})$$

$$= T_{22}$$

$$E-\text{closure}(\delta(T_{23}, \text{paren})) = E-\text{closure}(\{118\})$$

$$= T_{23}$$

$$T_{29} = E-\text{closure}(\delta(T_{24}, \text{brace})) = E-\text{closure}(\{16\})$$

$$= \{ \underline{16, 24, 25, 39, 40, 41, 42, 43, 83, 84, 91} \}$$

$$T_{30} = E-\text{closure}(\delta(T_{25}, \text{NOT_EARGS})) = E-\text{closure}(\{32\})$$

$$= \{ \underline{32} \}$$

$$T_{31} = E-\text{closure}(\delta(T_{25}, \text{comma})) = E-\text{closure}(\{35\})$$

$$= \{ \underline{35} \}$$

$$T_{32} = E-\text{closure}(\delta(T_{26}, \text{EXPR})) = E-\text{closure}(\{104\})$$

$$= \{ \underline{104} \}$$

~~$$T_{33} = E-\text{closure}(\delta(T_{26}, \text{TERM})) = E-\text{closure}(\{99, 102\})$$~~

~~$$= T_{18}$$~~

$$E-\text{closure}(\delta(T_{26}, \text{FACTOR})) = E-\text{closure}(\{05, 100\})$$

$$= T_{19}$$

$$E-\text{closure}(\delta(T_{26}, \text{fact})) = E-\text{closure}(\{112\})$$

$$= T_{20}$$

$$E-\text{closure}(\delta(T_{26}, \text{num})) = E-\text{closure}(\{114\})$$

$$= T_{21}$$

$$E-\text{closure}(\delta(T_{26}, \text{Id})) = E-\text{closure}(\{116\})$$

$$= T_{22}$$

$$E-\text{closure}(\delta(T_{26}, \text{paren})) = E-\text{closure}(\{118\})$$

$$= T_{23}$$

$$T_{23} = E-(\text{closure}(\delta(T_{21}, \text{TERM})) = E-(\text{closure}(110)) \\ = \{110\}$$

$$T_{24} = E-(\text{closure}(\delta(T_{21}, \text{FACTOR})) = E-(\text{closure}(105, 105)) \\ = T_{14}$$

$$E-(\text{closure}(\delta(T_{21}, \text{factor})) = T_{20}$$

$$E-(\text{closure}(\delta(T_{21}, \text{num})) = T_{21}$$

$$E-(\text{closure}(\delta(T_{21}, \text{Id})) = T_{22}$$

$$E-(\text{closure}(\delta(T_{21}, \text{paren})) = T_{23}$$

$$T_{24} = E-(\text{closure}(\delta(T_{22}, \text{paren})) = E-(\text{closure}(120)) \\ = \{120\}$$

$$T_{25} = E-(\text{closure}(\delta(T_{24}, \text{BLOCK})) = E-(\text{closure}(117)) \\ = \{117, 20\}$$

$$T_{26} = E-(\text{closure}(\delta(T_{24}, \text{STMT})) = E-(\text{closure}(26)) \\ = \{26, 25, 24, 21, 40, 41, 42, 43, 33, 94, 91\}$$

$$T_{27} = E-(\text{closure}(\delta(T_{24}, \text{VDECL})) = E-(\text{closure}(44)) \\ = \{44\}$$

$$T_{28} = E-(\text{closure}(\delta(T_{24}, \text{ASSIGN})) = E-(\text{closure}(45)) \\ = \{45\}$$

$$T_{29} = E-(\text{closure}(\delta(T_{24}, \text{If})) = E-(\text{closure}(41)) \\ = \{41\}$$

$$T_{40} = E-(\text{closure}(\delta(T_{24}, \text{while})) = E-(\text{closure}(61)) \\ = \{61\}$$

$$T_{41} = E-(\text{closure}(\delta(T_{24}, \text{for})) = E-(\text{closure}(112)) \\ = \{112\}$$

$$T_{42} = E-(\text{closure}(\delta(T_{24}, \text{Vtype})) = E-(\text{closure}(85, 88)) \\ = \{85, 88, 91\}$$

$$T_{43} = E-(\text{closure}(\delta(T_{24}, \text{Id})) = E-(\text{closure}(97)) = \{97\}$$

$$T_{44} = E-(\text{closure}(\delta(T_{24}, \text{Vtype})) = E-(\text{closure}(36)) \\ = \{36\}$$

$$T_{45} = E-(\text{closure}(\delta(T_{25}, \text{RETURN})) = E-(\text{closure}(18)) \\ = \{18\}$$

$$T_{46} = E-(\text{closure}(\delta(T_{25}, \text{return})) = E-(\text{closure}(2)) \\ = \{21, 111, 113, 115, 117\}$$

$$T_{47} = E-(\text{closure}(\delta(T_{26}, \text{BLOCK})) = E-(\text{closure}(27)) \\ = \{27\}$$

$$T_{48} = E-(\text{closure}(\delta(T_{26}, \text{STMT})) = E-(\text{closure}(26)) \\ = T_{26}$$

$$T_{48} = E-(\text{closure}(\delta(T_{26}, \text{VDECL})) = E-(\text{closure}(44)) \\ = T_{27}$$

$$T_{48} = E-(\text{closure}(\delta(T_{26}, \text{ASSIGN})) = E-(\text{closure}(45)) \\ = T_{28}$$

$$E-(\text{closure}(\delta(T_{26}, \text{If})) = E-(\text{closure}(41)) \\ = T_{29}$$

$$E-(\text{closure}(\delta(T_{26}, \text{while})) = E-(\text{closure}(61)) \\ = \{61\} \quad T_{40}$$

$$E-(\text{closure}(\delta(T_{26}, \text{for})) = E-(\text{closure}(112)) \\ = \{112\} \quad T_{41}$$

$$E-(\text{closure}(\delta(T_{26}, \text{Vtype})) = E-(\text{closure}(85, 88)) \\ = T_{42}$$

$$E-(\text{closure}(\delta(T_{26}, \text{Id})) = E-(\text{closure}(97)) \\ = T_{43}$$

$$T_{48} = E-(\text{closure}(\delta(T_{26}, \text{stmt})) = E-(\text{closure}(46)) \\ = \{46\}$$

$$T_{49} = \mathcal{E} - (\log_{inc} (S(T_{48}, paren))) = \mathcal{E} - (\log_{inc} (48)) \\ = \{48, 68, 111, 113, 115, 117\}$$

$$T_{50} = \mathcal{E} - (\log_{inc} (S(T_{40}, paren))) = \mathcal{E} - (\log_{inc} (69)) \\ = \{62, 68, 111, 113, 115, 117\}$$

$$T_{51} = \mathcal{E} - (\log_{inc} (S(T_{41}, paren))) = \mathcal{E} - (\log_{inc} (173)) \\ = \{73, 91\}$$

$$T_{52} = \mathcal{E} - (\log_{inc} (S(T_{42}, Id))) = \mathcal{E} - (\log_{inc} (8692)) \\ = \{86\} = \{91, 92\}$$

$$\cancel{T_{53}} = \mathcal{E} - (\log_{inc} (S(T_{42}, ASSIGN))) = \mathcal{E} - (\log_{inc} (89)) \\ = T_{11}$$

$$\cancel{T_{53}} = \mathcal{E} - (\log_{inc} (S(T_{43}, assign))) = \mathcal{E} - (\log_{inc} (93)) \\ = T_{10}$$

~~T₅₀~~

$$T_{53} = \mathcal{E} - (\log_{inc} (S(T_{44}, Id))) = \mathcal{E} - (\log_{inc} (37)) \\ = \{37, 33, 34\}$$

$$T_{54} = \mathcal{E} - (\log_{inc} (S(T_{45}, rbrace))) = \mathcal{E} - (\log_{inc} (19)) \\ = \{19\}$$

$$T_{55} = \mathcal{E} - (\log_{inc} (S(T_{46}, FACTOR))) = \mathcal{E} - (\log_{inc} (22)) \\ = \{22\}$$

$$\cancel{T_{56}} = \mathcal{E} - (\log_{inc} (S(T_{46}, Ifc))) = T_{20}$$

$$\mathcal{E} - (\log_{inc} (S(T_{46}, hrr))) = T_{21}$$

$$\mathcal{E} - (\log_{inc} (S(T_{46}, \tau))) = T_{22}$$

$$\mathcal{E} - (\log_{inc} (S(T_{46}, paren))) = T_{23}$$

$$T_{56} = \mathcal{E} - (\log_{inc} (S(T_{46}, COND))) = \mathcal{E} - (\log_{inc} (49)) \\ = \{49\}$$

$$T_{57} = \mathcal{E} - (\log_{inc} (S(T_{49}, FACTOR))) = \mathcal{E} - (\log_{inc} (64)) \\ = \{69\}$$

$$\cancel{T_{58}} = \mathcal{E} - (\log_{inc} (S(T_{44}, Ifc)))$$

T₂₀

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T₂₂

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$$T_{58} = \mathcal{E} - (\log_{inc} (S(T_{50}, COND))) = \mathcal{E} - (\log_{inc} (63)) \\ = \{63\}$$

$$\mathcal{E} - (\log_{inc} (S(T_{50}, FACTOR))) = \mathcal{E} - (\log_{inc} (64)) \\ = T_{57}$$

T₂₀

T₂₁

T₂₂

T₂₃

$$T_{59} = \mathcal{E} - (\log_{inc} (S(T_{51}, ASSIGN))) = \mathcal{E} - (\log_{inc} (174)) \\ = \{174\}$$

$$\cancel{T_{60}} = \mathcal{E} - (\log_{inc} (S(T_{51}, Id))) = \mathcal{E} - (\log_{inc} (12)) \\ = T_{43}$$

$$\cancel{T_{61}} = \mathcal{E} - (\log_{inc} (S(T_{52}, SENT))) = \mathcal{E} - (\log_{inc} (27)) \\ = T_{11}$$

$$\mathcal{E} - (\log_{inc} (S(T_{52}, ASSIGN))) = \mathcal{E} - (\log_{inc} (43)) \\ = T_{10}$$

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$$T_{60} = \mathcal{E} - (\log_{inc} (S(T_{53}, MORTARIS))) = \mathcal{P} \mathcal{E} - (\log_{inc} (39)) \\ = \{38\}$$

$$\mathcal{E} - (\log_{inc} (S(T_{53}, comma))) = \mathcal{E} - (\log_{inc} (35)) \\ = T_{31}$$

$$T_{61} = E-\text{closure}(b(T_{55}, \text{semT})) = E-\text{closure}(23) \\ = \{23\}$$

$$T_{62} = E-\text{closure}(b(T_{56}, \text{rparen})) = E-\text{closure}(50) \\ = \{50\}$$

$$T_{63} = E-\text{closure}(S(T_{57}, \text{comp})) = E-\text{closure}(110) \\ = \{110, 111, 113, 115, 117\}$$

$$T_{64} = E-\text{closure}(b(T_{58}, \text{rparen})) = E-\text{closure}(64) \\ = \{64\}$$

$$T_{65} = E-\text{closure}(S(T_{59}, \text{semT})) = E-\text{closure}(115) \\ = \{115, 68, 111, 113, 115, 117\}$$

$$T_{66} = E-\text{closure}(b(T_{62}, \text{block})) = E-\text{closure}(51) \\ = \{51, 24, 25, 31, 40, 41, 42, 43, 83, 84, 91\}$$

$$T_{617} = E-\text{closure}(b(T_{63}, \text{FACTOP})) = E-\text{closure}(111) \\ = \{111\}$$

T₂₀
T₂₁
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T₂₃

$$T_{62} = E-\text{closure}(S(T_{64}, \text{block})) = E-\text{closure}(65) \\ = \{65, 24, 25, 31, 40, 41, 42, 43, 83, 84, 91\}$$

$$T_{64} = E-\text{closure}(S(T_{65}, \text{comp})) = E-\text{closure}(116) \\ = \{116\}$$

$$\cancel{T_{66}} = E-\text{closure}(S(T_{65}, \text{FACTOR})) = E-\text{closure}(61) \\ = T_{57}$$

T₂₀ ~ T₂₃

$$T_{70} = E-\text{closure}(T_{66}, \text{block}) = E-\text{closure}(52) \\ = \{52\}$$

$$\cancel{T_{71}} = E-\text{closure}(S(T_{66}, \text{stmt})) = E-\text{closure}(26) \\ = T_{36}$$

T₃₇

T₃₈

T₃₉

T₄₀

T₄₁

T₄₂

T₄₃

$$T_{71} = E-\text{closure}(S(T_{68}, \text{block})) = E-\text{closure}(66) \\ = \{66\}$$

$$\cancel{T_{72}} = E-\text{closure}(S(T_{69}, \text{stmt})) = E-\text{closure}(26) \\ = T_{36}$$

T₃₇

T₃₈

T₃₉

T₄₀

T₄₁

T₄₂

T₄₃

$$T_{72} = E-\text{closure}(S(T_{64}, \text{stmt})) = E-\text{closure}(111) \\ = \{111, 91\}$$

$$T_{73} = E-\text{closure}(S(T_{70}, \text{rparen})) = E-\text{closure}(53) \\ = \{53, 55, 56\}$$

$$T_{74} = E-\text{closure}(S(T_{71}, \text{rparen})) = E-\text{closure}(61) \\ = \{61\}$$

$$T_{75} = E - (\text{value}(\mathcal{S}(T_{72}, \text{Assign})) = E - (\text{value}(178)) \\ = \{178\}$$

$$E - (\text{value}(\mathcal{S}(T_{72}, T_d))) = E - (\text{value}(112)) \\ = T_{43}$$

$$T_{76} = E - (\text{value}(\mathcal{S}(T_{73}, \text{Else}))) = E - (\text{value}(54)) \\ = \{54\}$$

$$T_{77} = E - (\text{value}(\mathcal{S}(T_{73}, \text{else}))) = E - (\text{value}(T_7)) \\ = \{57\}$$

$$T_{78} = E - (\text{value}(\mathcal{S}(T_{75}, \text{rparen}))) = E - (\text{value}(179)) \\ = \{179\}$$

$$T_{79} = E - (\text{value}(\mathcal{S}(T_{77}, \text{block}))) = E - (\text{value}(52)) \\ = \{52, 24, 25, 39, 40, 41, 42, 43, 83, 84, 91\}$$

$$T_{80} = E - (\text{value}(\mathcal{S}(T_{79}, \text{block}))) = E - (\text{value}(90)) \\ = \{80, 24, 25, 39, 40, 41, 42, 43, 83, 84, 91\}$$

$$T_{81} = E - (\text{value}(\mathcal{S}(T_{79}, \text{Block}))) = E - (\text{value}(541)) \\ = \{541\}$$

T_{26}

T_{37}

T_{39}

T_{34}

T_{40}

T_{41}

T_{42}

T_{43}

$$T_{82} = E - (\text{value}(\mathcal{S}(T_{80}, \text{Block}))) = E - (\text{value}(2)) \\ = \{2\}$$

T_{26}

T_{37}

T_{39}

T_{34}

T_{40}

T_{41}

T_{42}

T_{43}

$$T_{83} = E - (\text{value}(\mathcal{S}(T_{81}, \text{rbracket}))) = E - (\text{value}(60)) \\ = \{60\}$$

$$T_{84} = E - (\text{value}(\mathcal{S}(T_{82}, \text{rbracket}))) = E - (\text{value}(82)) \\ = \{82\}$$